CATALOGUE

OF THE

CLEMSON AGRICULTURAL COLLEGE

OF SOUTH CAROLINA

STATE AGRICULTURAL AND MECHANICAL COLLEGE

POSTOFFICE: CLEMSON COLLEGE

TELEGRAPH, EXPRESS AND FREIGHT OFFICES: CALHOUN

1906-1907

FOURTEENTH YEAR

ANNOUNCEMENTS 1907-1908

Columbia, S. C.
THE R. L. BRYAN COMPANY
1907

1907

JULY

S	M	T	W	T	F	S
...	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	...	...	...
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AUGUST

...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
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SEPTEMBER

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...	...	...	...	...	...	...

OCTOBER

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27	28	29	30	31	...	...
...	...	...	...	...	...	...

NOVEMBER

S	M	T	W	T	F	S
...	...	...	...	...	1	2
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
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DECEMBER

1	2	3	4	5	6	7
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29	30	31	...	...	...	...
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1908

JANUARY

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5	6	7	8	9	10	11
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19	20	21	22	23	24	25
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...	...	...	...	...	...	...

FEBRUARY

...	...	...	...	...	...	1
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
...	...	...	...	...	...	...

MARCH

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29	30	31	...	...	...	...
...	...	...	...	...	...	...

APRIL

...	...	...	1	2	3	4
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	...	...
...	...	...	...	...	...	...

MAY

...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

JUNE

...	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	...	...	...	...
...	...	...	...	...	...	...

College Calendar

Session 1907—1908

1907.

Sept. 11-16. Examinations for admission and for removal of conditions.
Sept. 11. Opening of the 15th session; exercises begin at 8.40 A. M.
Nov. 28. Thanksgiving Day: a holiday.
Dec. 23. First day of Christmas recess.

1908.

Jan. 3. Beginning of the second term, 8.40 A. M.
Jan. 19. Lee's birthday; annual public exercises of the Columbian literary society in the evening.
Feb. 22. Washington's birthday: a holiday.
Annual public exercises of the Palmetto literary society in the evening.
Feb. 25. Stated meeting of the Board of Trustees.
Mar. 18. Calhoun's birthday: a holiday.
Annual public exercises of the Calhoun literary society in the evening.

1908.

Mar. 16. Beginning of the third term, 8.40 A. M.
May 1. A holiday.
Annual track and field athletic contests.
June 7. Beginning of commencement exercises; baccalaureate sermon.
June 8. Address of alumni orator.
Contest of literary society representatives.
Military exercises and graduation parade.
June 9. Commencement day; address to the graduating class.
Graduating exercises; delivery of diplomas.
June 14. Stated meeting of Board of Trustees.

Reports to Parents

Reports of class standing and discipline will be sent to parents for periods ending on the following dates:

Oct. 25, and Dec. 13,* 1907; Feb. 7, Mar 6,* April 17, and May 29,* 1908. Dates marked with an asterisk (*) are approximate, depending upon the begining of the respective term examinations.

Quarterly Dues

Payable Sept. 11, Nov. 13, 1907; Jan. 27, April 1, 1908.

Board of Trustees

Life Members

HON. R. W. SIMPSON, President.....Pendleton, Anderson Co.
SENATOR B. R. TILLMAN.....Trenton, Edgefield Co.
HON. R. E. BOWEN.....Easley, Pickens Co.
HON. J. E. BRADLEY*.....Troy, Abbeville Co.
HON. M. L. DONALDSON.....Greenville, Greenville Co.
HON. J. E. WANNAMAKER.....St. Matthews, Orangeburg Co.
HON. ALAN JOHNSTONE.....Newberry, Newberry Co.

Term Expires 1908

HON. ROBERT ALDRICH.....Barnwell, Barnwell Co.
HON. JESSE H. HARDIN.....Chester, Chester Co.
HON. G. DUNCAN BELLINGER.....Columbia, Richland Co.

Term Expires 1912

HON. W. D. EVANS.....Cheraw, Marlboro Co.
HON. L. A. SEASE.....Prosperity, Newberry Co.
HON. IVY M. MAULDIN.....Pickens, Pickens Co.

*Deceased.

Standing Committees of the Board

Executive Committee

Messrs. Donaldson, Aldrich, Bowen, Bradley, Johnstone.

Finance Committee

Messrs. Simpson, Donaldson, Johnstone, Mauldin.

Committee on Fertilizer Control

Messrs. Evans, Aldrich, Wannamaker, Bellinger, Tillman.

Experiment Station Committee

Messrs. Tillman, Aldrich, Wannamaker, Donaldson, Evans.

Farmers' Institute Committee

Messrs. Johnstone, Sease, Donaldson, Evans, Tillman, Simpson.

Entomological Inspection Committee

Messrs. Sease, Donaldson, Wananmaker, Mauldin.

Veterinary Inspection Committee

Messrs. Johnstone, Evans, Bowen, Bellinger, Mauldin.

Committee on Coast Experiments

Messrs. Wannamker, Evans, Aldrich, Tillman, Donaldson.

Board of Visitors for the Session 1907—1908

Meeting First Wednesday in May.

FIRST DISTRICT—Hon. Huger Sinkler, Charleston.
SECOND DISTRICT—Hon. G. L. Toole, Aiken.
THIRD DISTRICT—Hon. Chas. H. Carpenter, Pickens.
FOURTH DISTRICT—Hon. Thos. P. Cothran, Greenville.
FIFTH DISTRICT—Hon. J. G. Richards, Jr., Liberty Hill.
SIXTH DISTRICT—Hon. R. P. Hamer, Jr., Hamer.
SEVENTH DISTRICT—Hon. T. G. Fraser, Sumter.

Faculty*

PATRICK HUES MELL, Ph. D., LL. D.
President.

Agricultural Department

JOSEPH NELSON HARPER, B. S., M. Agr.
Director of Department.
Professor of Agriculture.

FRED HARVEY HALL CALHOUN, Ph. D.
Professor of Geology and Mineralogy.

CHARLES CARTER NEWMAN
Associate Professor of Horticulture.

CHARLES EDWARD CHAMBLISS, B. S., M. S.
Associate Professor of Zoology and Entomology.

LOUIS AMOS KLEIN, V. M. D.
Associate Professor of Veterinary Science.

JOHN MICHELS, M. S.
Associate Professor of Animal Husbandry and Dairying.

CLIFFORD LEWIS NEWMAN, M. S.
Associate Professor of Agriculture.

HOMER DOLIVER HOUSE, B. S., M. A.
Associate Professor of Botany and Bacteriology.

JUNIUS MILTON BURGESS, B. S.
Assistant in Animal Husbandry and Dairying.

M. RAY POWERS, D. V. S.
Assistant in Veterinary Science.

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*The names of the Faculty, after that of the President, are arranged in groups in each department: Professors, Associate Professors, Assistant Professors, and Instructors, in the order of their respective appointments.

Mechanical and Electrical Department

WALTER MERRITT RIGGS, E. M. E.,
Director of Department,
Professor of Mechanical and Electrical Engineering.

SAMUEL BROADUS EARLE, A. M., M. E.
Associate Professor of Mechanical Engineering.

THOMAS GRAYSON POATS, M. E., E. E.
Associate Professor of Physics.

RUDOLPH EDWARD LEE, B. S.,
Associate Professor of Drawing.

JOHN HILLIARD HOOK, B. S.
Assistant Professor of Wood-work.

WILLISTON WIGHTMAN KLUGH, B. S.
Assistant Professor of Drawing.

FRANK TOWNES DARGAN, M. S.
Assistant Professor of Electricity.

JOHN WEEMS GANTT
Assistant Professor of Forge and Foundry.

STYLES TRENTON HOWARD, B. M. E.
Assistant Professor of Machine-work.

FRANK BOGARD, B. M. E.
Instructor in Drawing.

ANDREW BURCHELL GARDNER
Assistant in Wood-work.

Department of Chemistry

MARK BERNARD HARDIN
Director of Department,
Professor of Chemistry.

RICHARD NEWMAN BRACKETT, A. B., Ph. D.
Associate Professor of Chemistry.

FRANK SCOTT SHIVER, Ph. G.
Assistant Professor of Agricultural Analysis.

DAVID HILL HENRY, B. S.
Assistant Professor of Chemistry.

Department of Textile Industry

CHARLES STEBBINS DOGGETT
Director of Department,
Professor of Textile Chemistry and Dyeing.

CLAUDE WIGHTMAN McSWAIN, B. S.
Assistant Professor of Weaving and Designing.

DRAYTON EUGENE EARLE, B. S.
Assistant Professor of Carding and Spinning.

Academic Department

CHARLES MANNING FURMAN, A. B.
Professor of English.

WILLIAM SHANNON MORRISON, A. B.
Professor of History and Political Economy.

PAUL THOMAS BRODIE, B. S., A. B.
Professor of Mathematics and Civil Engineering.

DAVID WISTAR DANIEL, M. A.
Associate Professor of English.

SAMUEL MANER MARTIN, B. S.
Associate Professor of Mathematics.

AUGUSTUS SHANKLIN, B. S.
Registrar and Secretary of the Faculty,
Assistant Professor of Mathematics.

THOMAS WADLINGTON KEITT
Assistant Professor of English.

ARTHUR BUIST BRYAN, B. S., B. Litt.
Assistant Professor of English.

HALE HOUSTON, C. E.,
Assistant Professor of Applied Mathematics in Civil Engineering.

JOSEPH EVERETT HUNTER, B. S.
Assistant Professor of Mathematics.

MARK EDWARD BRADLEY, A. B.
Assistant Professor of English.

BURR HARRISON JOHNSTONE, A. B.
Assistant Professor, teaching Mathematics, German and French.

Military Department

CHARLES DONALD CLAY
Captain U. S. Army, Retired, Commandant of Cadets,
Professor of Miltary Science and Tactics.

Preparatory Department

ALESTER GARDEN HOLMES
Instructor in English, History and Geography.

The following members of the Collegiate Faculty also instruct the Preparatory Class in the subjects indicated:

PROFESSOR MORRISON, History.
ASSISTANT PROFESSOR KEITT, English.
ASSISTANT PROFESSOR BRYAN, English
ASSISTANT PROFESSOR BRADLEY, English.
ASSISTANT PROFESSOR JOHNSTONE, Mathematics.

Standing Committees of the Faculty

The President is *ex officio* a member of each committee.
The first named in each instance is chairman.

Discipline Committee

President Mell, Professors Hardin, Furman, Morrison, Brodie, Riggs, Calhoun, Clay, Harper, Doggett.

Committee on Examinations

Professors Brodie, Furman, Morrison, Riggs, Calhoun.

Schedule Committee

Professors Morrison, Brackett, Furman, Riggs, Lee, Brodie, Clay, Doggett, Harper.

Library Committee

Professors Chambliss, Bryan, Calhoun, Doggett, Earle, Henry.

Committee on Preparatory Department

Professors Furman, Morrison, Brodie, Calhoun.

Committee on Irregular Students

Professors Chambliss, Lee, Houston, Klugh, Newman, C. L.

Committee on Chapel Services

Professors Earle, Shiver, Lee, Keitt, Bradley.

Committee on Chapel Music

Professors Riggs, Hook, Bryan.

Committee on Lectures and Entertainments

Professors Daniel, Martin, Klugh, Houston, Dargan.

Committee on Extension Work

Professors Chambliss, Daniel, Calhoun, Klein, Earle.

Committee on Alumni

Professors Shanklin, Lee, Henry.

Committee on Athletics

Professors Riggs, Daniel, Shanklin, Calhoun, Gantt, Poats.

Catalogue Committee

Professors Earle, Brackett, Houston, Clay, Klein, McSwain.

Museum Committee

Professors Calhoun, Chambliss, House.

Students Publication Committee

Professors Keitt, Bradley.

Officers of the College

PATRICK HUES MELL, Ph. D., LL. D.
President.

CHARLES DONALD CLAY
Captain U. S. Army, Retired,
Commandant.

ALEXANDER MAY REDFERN, B. S., M. D.
Surgeon.

AUGUSTUS SHANKLIN
Registrar and Secretary of Faculty.

PAUL HAMILTON EARLE SLOAN, M. D.
Treasurer and Secretary Board of Trustees.

HUGH MILTON STACKHOUSE
Secretary Board of Fertilizer Control.

GEORGE EDWIN TAYLOR*
Bookkeeper.

BEN CURTIS HARD**
Bookkeeper.

WILLIAM CALVIN TUCKER
Assistant Bookkeeper.

MISS KATHERINE BOCQUET TRESCOT
Librarian.

MISS MINNIE BATES WANNAMAKER.
Secretary to the President.

MISS HELEN BRADFORD
Stenographer to Agricultural Department.

JOHN NATHAN HOOK
Justice Clemson College Corporation.

JAMES PERCIVAL LEWIS
Superintendent of College Farm.

AUGUST SCHILLETTER
Steward.

SYLVANUS HAMILTON PREVOST
Assistant to Commandant.

J. S. GOODMAN
In Charge of Construction and Repairs.

Board of Health

President MELL, Doctors REDFERN and SLOAN, Professors HARDIN and HARPER.

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*Deceased.
**In place of G. E. Taylor.

Experiment Station Council

P. H. MELL, Ph. D., LL. D., *President of College.*

J. N. HARPER, B. S., M. Agr., *Director Agriculture.*

M. B. HARDIN, *Chief Chemist.*

C. C. NEWMAN, *Horticulture.*

C. E. CHAMBLISS, M. S., *Entomology and Zoology.*

L. A. KLEIN, V. M. D., *Veterinary Science.*

JOHN MICHELS, M. S., *Animal Husbandry and Dairying.*

C. L. NEWMAN, M. S., *Agriculture.*

F. H. H. CALHOUN, Ph. D., *Geology.*

H. D. HOUSE, A. M., *Botany and Bacteriology.*

F. S. SHIVER, Ph. G., *Chemistry.*

R. N. BRACKETT, Ph. D., *Chemistry.*

Assistants

J. N. HOOK, *Secretary and Librarian.*

D. H. HENRY, B. S., *Chemistry.*

J. M. BURGESS, B. S., *Herdsman.*

W. D. GARRISON, B. S., *Foreman of Station Farm.*

MISS HELEN C. BRADFORD, *Stenographer.*

J. M. JENKINS, B. S., *in Charge of Coast Branch Experiment Station.*

Chemists of Fertilizer Control

C. C. McDONNELL, B. S.,* *Chemistry.*

B. F. ROBERTSON, B. S., *Chemistry.*

W. E. DICKINSON, B. S., *Assistant, Chemistry.*

J. H. MITCHELL, M. S., *Assistant, Chemistry.*

T. E. KEITT, B. S., *Assistant, Chemistry.*

State Control Officers**

PROFESSOR M. B. HARDIN, *State Chemist.*

PROFESSOR C. E. CHAMBLISS, *State Entomologist.*

DR. L. A. KLEIN, *State Veterinarian.*

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*Resigned, to take effect March 15th, 1907.

**Appointed by the Board of Trustees under the State laws requiring them to carry on the work indicated.

Ministers for Session 1906—1907

Sept. 16. Rev. T. M. McConnell, Camden, S. C.
Sept. 23. Rev. D. M. McLeod, Union, S. C.
Sept. 30. Rev. J. L. McLees, Orangeburg, S. C.
Oct. 7. Rev. J. W. Willis, Rock Hill, S. C.
Oct. 14. Rev. A. R. Mitchell, Greenville, S. C.
Oct. 21. Rev. W. H. Fraser, Anderson, S. C.
Oct. 28. Rev. Mark L. Carlisle, Charleston, S. C.
Nov. 4. Rev. W. M. Steele, Greenville, S. C.
Nov. 11. Rev. A. S. Thomas, Darlington, S. C.
Nov. 18. Rev. G. A. Blackburn, Columbia, S. C.
Nov. 25. Rev. W. W. Daniel, Columbia, S. C.
Dec. 2. Rev. L. M. Rice, Union, S. C.
Dec. 9. Rev. W. E. Callendar, Florence, S. C.
Dec. 16. Rev. Alexander Sprunt, Charleston, S. C.
Jan. 13. Rev. W. I. Herbert, Charleston, S. C.
Jan. 20. Rev. E. C. Bailey, Timmonsville, S. C.
Jan. 27. Archdeacon P. C. Webber, Boston, Mass.
Feb. 3. Rev. S. M. Provence, Tuskegee, Ala.
Feb. 10. Rev. S. E. Prentiss, Abbeville, S. C.
Feb. 17. Rev. W. L. Lingle, Rock Hill, S. C.
Feb. 24. Rev. S. M. Henry, Pendleton, S. C.
Mar. 3. Rev. Z. T. Cody, Greenville, S. C.
Mar. 10. Rev. L. G. Wood, Charleston, S. C.
Mar. 17. Rev. M. R. Kirkpatrick, Seneca, S. C.
Mar. 24. Rev. R. E. Stackhouse, Rock Hill, S. C.
Mar. 31. Rev. J. A. B. Scherer, Newberry, S. C.
Apr. 7. Rev. A. J. S. Thomas, Greenville, S. C.
Apr. 14. Rev. K. G. Finlay, Clemson College, S. C.
Apr. 21. Rev. F. E. Gillespie, Yorkville, S. C.
Apr. 28. Rev. J. W. Heidt, Atlanta, Ga.
May 5. Rev. H. H. Covington, Sumter, S. C.
May 12. Rev. W. C. James, Russellville, Ky.
May 19. Rev. Robert Adams, Laurens, S. C.
May 26. Rev. H. W. Bays, Sumter, S. C.
June 2. Rev. L. M. Roper, Spartanburg, S. C.
June 9. Baccalaureate Sermon, Rev. R. D. Smart, Charlottesville, Va.

Regimental Organization

FEBRUARY 18TH, 1907.

Commandant of Cadets

CAPTAIN CHARLES DONALD CLAY,
UNITED STATES ARMY, RETIRED.

Regimental Staff

S. R. Perrin.....*Captain and Adjutant*
F. M. Furtick.....*Captain and Quartermaster*
J. W. McLendon.....*First Lieutenant and Assistant Quartermaster*

Non-Commissioned Staff

C. A. McLendon.....*Sergeant Major*
F. P. Caughman.....*Quartermaster Sergeant*
D. N. Harris.....*Color Sergeant*
L. O. Watson.....*Color Sergeant*

Hospital Corps

R. A. Easterling.....*Captain*
J. W. Keel.....*First Lieutenant*

First Battalion

MAJOR A. S. HEYWARD

Adjutant.
C. WOODS WANNAMAKER.

Sergeant Major.
J. M. BRYAN.

COMPANY "E"	COMPANY "F"	COMPANY "G"	COMPANY "H"
		Captains	
W. A. Latimer[8]	W. H. Stevens[4]	E. D. McCutchan[1]	A. M. Klugh[7]
		Lieutenants	
A. V. Hooks[1]	T. D. Eason[6]	G. R. Jones[2]	P. L. Howle[5]
R. E. Dalton[6]	O. M. Reid[4]	J. B. Bailey[1]	H. C. Crum[3]
		First Sergeants	
J. Spratt	A. G. Kennedy	M. L. Sandifer	W. M. Lunn
		Sergeants	
J. E Alverson	M. R. Kimbrell	C. W. Rice	C. McLaurin
M. H. Ackerman	W. P. Gee	C. C. Johnson	H. L. Rivers
A. C. Lee	C. W. Busch	J. B. Simpson	J. N. Napier
F. J. Crider		W. D. Simpson	E. H. Shuler
		Corporals	
J. Wylie	T. L. Brice	B. F. Ballew	S. O. Pegues
J. C. Harrison	K. McLaurin	S. O. Kelley	H. W. McIver
O. M. Clark	M. L. Tyler	W. G. Dominick	A. B. Craig
C. M. Wootan	S. Coles	E. E. Gary	A. K. Folger
J. N. McLaurin	J. P. McMillan		C. H. Goldsmith
	L. P. Byars		T. H. Yeargin
			J. C. Reid

Second Battalion

MAJOR W. P. SLOAN

Adjutant.
L. S. HORTON.

Sergeant Major.
J. C. LITTLEJOHN.

COMPANY "A"	COMPANY "B"	COMPANY "C"	COMPANY "D"
		Captains	
E. B. Plenge[3]	E. A. Crawford[5]	R. R. Tolbert[6]	F. M. Stephenson[2]
		Lieutenants	
H. P Lykes[3]	A. B. Taylor[7]	B. D. Carter[4]	H. W. Moore[8]
G. H. Folk[2]	W. L. Stone[7]	P. W. Spencer[5]	J. J. Brown[8]
		First Sergeants	
T. C. Heyward	F. L. Martin	L. C. Boone	D. L. Tindal
		Sergeants	
W. M. Rosborough	H. C. Wilburn	C. L. Cannon	T. S. Allen
W O. Pratt	W. A. Thomas	C. L. Stevens	J. W. Lewis
G. M. Truluck	R. O. Poag	M. G. Wi liams	J. A. Phillips
W H. Rumff	E. S. Kohn	A. C. Summers	N. A. Lykes
		Corporals	
E. C. Martin	L. B. Brandon	W. L. Nance	B. E Wolff
C. E. Baldwin	H. K. Sanders	C. P. Norris	G. E. Lachicotte
J. T. Folk	J. O. Graham	W. G. Hyrne	T. B. Reeves
T. Fulmer	J. H. Wilson	J. C. Pridemore	L. Gardner
A. C. Hunter	S. Jordan	B. L. Parnell	J. L. Dove
R. T. Gaston	W. J. Sheely		W. A. Robinson

Detachment "I"

S. H. Sherard.....*First Sergeant*

Sergeants	
H. H. Brunson	F. G. Tarbox
Corporals	
L. H. Butler	J. J. Gantt
E. D. Clement	H. C. Twiggs

Cadet Band

W. L. Schachte, *First Lieutenant and Chief Musician*
A. T. Beaver, *Drum-Major*
C. M. Trott, *Sergeant*
T. L. Bissell, *E b Clarinet*
G. L. Wilson, *B b Clarinet*
W. K. Tavel, *Solo Cornet*
V. B. Higgins, *2d Cornet*
E. P. Porcher, *2d Cornet*
W. L. Schachte, *1st Trombone*
L. D. Webb, *2d Trombone*
C. M. Trott, *1st Alto*
J. M. Wylie, *2d Alto*
N. E. Byrd, *3d Alto*
E. H. Pinckney, *3d Alto*
C. W. Mack, *Baritone*
W. H. Wylie, *Snare Drum*
E. P. Crouch, *Bass*
T. N. Bristow, *Bass*
C. W. Marston, *Bass Drum*

LOCATION AND HISTORICAL SKETCH
ADMISSION AND COURSES OF STUDY

Location

The College is located on the old Fort Hill homestead of John C. Calhoun, on the dividing line between Oconee and Pickens Counties, in the picturesque foot-hills of the Blue Ridge. It has an elevation of 800 feet above sea level, and commands an excellent view of the mountains to the north and west, some of which attain an altitude of nearly 5,000 feet. The climate is invigorating and healthful, and the surroundings are in every way favorable to the highest physical and mental development.

The College is one mile from Calhoun, a station on the main line of the Southern Railway, and two miles from Cherrys, on the Blue Ridge Railroad. By means of these roads and their connections, the College is easily accessible from all parts of the State. It is also connected by local telephone with neighboring towns in adjoining counties, and by telegraph and long distance telephone with all parts of the country. The post office is conveniently situated on the campus, and receives five daily mails.

Historical Sketch

The College is the outcome of a movement for the establishment of an Agricultural College by a convention of farmers of the State in 1886. The first step toward the realization of this project was taken by the Hon. Thomas G. Clemson, who, upon his death in 1888, bequeathed to the State the old Fort Hill homestead, the former home of John C. Calhoun, and other securities to the value of $58,539, "for the establishment of an Agricultural College." The estate included about 800 acres of land and the historic old Calhoun residence, which is now carefully preserved on the College campus. This bequest was accepted by the State Legislature in an Act which became a law in November, 1889.

The College was opened on the 6th day of July, 1893, and 446 students were enrolled during the first session. These were classified as sophomores, freshmen, and higher and lower preparatory. The Trustees having decided that sessions should begin on the third Thursday in February and end on the third Thursday in December, the first session was only about five and a half months long. On this account the students were continued in the same classes throughout the second session, February to December, 1894, and the enrollment increased to 635. On the night of May 22d, 1894, the Main building was burned, but the regular exercises were not interrupted, and the only summer vacation consisted of a week's encampment at Spartanburg in July.

During the third session, February to December, 1895, there were 370 students in attendance, with the former sophomores advanced to the junior class. There was a recess of two weeks in the latter part of July, and the session was closed on December 7th. The enrollment during the fourth session, February to December, 1896, was 350, and the first commencement exercises were held on December 13th to 16th, 1896, with a graduating class of 37, 15 in the agricultural course and 22 in the mechanical-electrical. The fifth session opened in the regular way, on the third Thursday in February, 1897. At a meeting of the Trustees in July, it was decided to open the College on the 14th of September, and that henceforth the sessions should begin regularly on the second Wednesday in September and close on the second Wednesday in June. The exercises of the second commencement, which would normally have occurred in December, 1897, were held on February 6th to 9th, 1898. The graduating class numbered 25, 13 in the agricultural course and 12 in the mechanical-electrical. The undergraduate classes were continued until June, and the total enrollment for this long session (February, 1897, to June, 1898), was 449. It

will be observed that, owing to the change from winter to summer vacation, there was no class graduated in 1897.

Since 1898 the annual commencement exercises have been held regularly in June, although the closing day was afterward changed to first Tuesday, instead of second Wednesday. During the sixth session, 1898-1899, the enrollment was 446, and the graduating class numbered 16, 6 in the agricultural course, 6 in the mechanical-electrical, and 4 in the civil engineering. The textile department was first opened for students at the beginning of this session, in September, 1898. During the seventh session, 1899-1900, 461 students matriculated, and the class of 1900 numbered 28, including 12 in the agricultural course, 6 in the mechanical-electrical, 6 in the civil engineering, and 4 in the textile.

Beginning with the eighth session, 1900-1901, preparatory instruction was restricted to a one-year course, thus abolishing the lower preparatory class. During the session 483 students were enrolled, and the graduating class numbered 31, including 9 in the agricultural course, 11 in the mechanical-electrical, 2 in the civil engineering, and 9 in the textile. In the ninth session, 1901-1902, 500 students matriculated and 59 were graduated, including 12 in the agricultural course, 28 in the mechanical-electrical, 2 in the civil engineering, and 17 in the textile. The enrollment during the tenth session, 1902-1903, was 539, and the graduating class numbered 60, including 6 in the agricultural course, 28 in the mechanical-electrical, 5 in the civil engineering, and 21 in the textile.

In the eleventh session, 1903-1904, 605 students were enrolled, and the graduating class numbered 39, including 4 in the agricultural course, 28 in the mechanical-electrical, 2 in the civil engineering, and 5 in the textile.

A gold medal was awarded to the mechanical, electrical, civil and textile exhibit at the St. Louis Exposition.

A bronze medal was awarded to the agricultural department for the preservation of the sweet potato.

In the twelfth session, 1904-1905, 673 students were enrolled, and the graduating class numbered 39, including 5 in the agricultural course, 20 in the mechanical-electrical, 8 in the civil, 5 in the textile, and 1 in the metallurgical course.

In the thirteenth session, 1905-1906, 652 students were enrolled, and the graduating class numbered 59, including 16 in the agricultural course, 20 in the mechanical-electrical, 15 in the civil, and 8 in the textile course.

The total number of graduates to June, 1906, was 393.

Admission of Students

Every candidate for admission must be at least sixteen years of age.

Students desiring to enter the College should apply to the President for application blanks, and these, properly filled out, should be returned to the President as early in the summer as possible, and in no case later than August 15th.

Certificates of good moral character are required of all candidates not known to members of the Faculty; and if the candidate come from another college, this certificate must show that he was honorably discharged.

In selecting students who shall be admitted to the College, subject to their passing the required examinations, the following rules, prescribed by the Board of Trustees, will govern:

1. Students must undergo a medical examination, and no student will be admitted who is not healthy and free from contagious diseases, including consumption.

2. Students will be apportioned among counties in proportion to representation in the House of Representatives, under the following rules and regulations:

(a). Applicants prepared to enter College classes will

have preference over those who enter only the preparatory class.

(b). As between applicants of equal preparation, the oldest will have the preference.

(c). Other things being equal, the first applicants will receive permission to enter.

(d). When a county has not sent its quota, the places thus left shall be apportioned among the other applicants.

(e). Provided a sufficient number of applicants from the State to fill the barracks do not apply, then students from other States may be admitted, and when so admitted, may continue in College until they complete their course.

(f). Applicants not entering within ten days after the opening of the session will have their rights in the place given to applicants next on the roll.

Students upon arrival at the College at the opening of the session must report at once to the President's office and matriculate before they will be assigned to quarters in the barracks. No student will be admitted to any of the classes or examinations of the College before matriculation and payment of the fees. (See page 52).

Matriculation is equivalent to a pledge to conform to the rules and regulations of the College.

Entrance Requirements

For admission into the freshman class a thorough knowledge is required of arithmetic, elementary algebra, English grammar, geography, and history of the United States.

Arithmetic.—The applicant is expected to have a thorough practical acquaintance with the ordinary principles and operations of arithmetic. Wentworth's Practical Arithmetic is recommended as a suitable text-book.

Algebra.—The detailed requirements are as follows: Definitions and notation, fundamental operations, including laws of signs, and the interpretation of negative results;

use of parentheses; factoring; highest common factor; lowest common multiple; single and complex fractions; simple integral and fractional equations with one unknown number, and problems leading to such equations; simultaneous equations of the first degree, with applications to solution of problems; involution of monomials, and polynomials; evolution of monomials and polynomials; theory of exponents with applications; radicals, including solution of equations involving rationalization; simple operations with imaginary expressions; pure and affected quadratic equations containing one unknown number, with application to problems.

The student should cover carefully the whole ground here specified, and should acquire a clear understanding not only of algebraic processes, but of the principles and reasons involved in every operation. Students fail on entrance examinations more frequently because of imperfect knowledge of the subject matter passed over, than because they have not gone far enough in the text-book.

A satisfactory treatment of the topics in Algebra may be found in Wentworth's New School Algebra (used in the public schools).

English.—Applicants are examined in spelling, sentence analysis, and oral reading; and are required to write short essays on an assigned subject.

Geography.—Applicants must possess a fair knowledge of general geography, such as may be obtained from a proper study of Frye's Advanced, Maury's Manual, Tarr and McMurry's Complete Geography, or other standard text-book of equal grade. The following topics will be especially emphasized in the entrance examinations: Outlines and positions of the continents, and locations of the principal mountains, plateaus, river basins, and coastal lowlands; influences of land forms and climate upon the life and industries of the inhabitants; locations and outlines of

important countries, particularly those of America and Europe, and of the States in the United States; locations of great cities in all countries, and conditions favorable to the growth of cities.

History.—A School History of the United States, by White, is the text-book recommended. Any other school history may be used in place of the one named.

Entrance Examinations

Entrance examinations are held during the first week of the opening of the session, September 11th to 16th, 1907, and all applicants for admission are expected to report promptly at the beginning of this period. Former students, also, who have conditions to remove or work to make up, are required to report at the same time.

Examinations on the subjects required for entrance will be held on the dates shown in the following schedules, beginning at 9 A. M.:

For Admission to the Freshman Class.

Arithmetic, Wednesday, September 11th, 1907.
Algebra, Thursday, September 12, 1907.
English, Friday, September 13th, 1907.
Geography, Saturday, September 14, 1907.
History, Monday, September 16th, 1907.

For Admission to the Preparatory Class.

Arithmetic, Wednesday, September 11th, 1907.
English, Thursday, September 12th, 1907.
Geography, Friday, September 13th, 1907.

Upon passing satisfactorily the required examinations, the Committee on Examinations furnishes the applicant with a certificate to that effect, and upon presentation of this certificate at the President's office he is assigned to the class recommended by the Committee.

For admission to advanced standing, applicants must be prepared to stand examinations on the subjects passed over by the lower classes, as indicated in the courses of study scheduled on the following pages. Such applicants should report with other new students during the regular examination period, and arrange with their instructors for the necessary examinations before the opening of the session. Students admitted to advanced standing are allowed a reasonable length of time in which to make up shop work of the lower classes, in case they have not done equivalent work elsewhere.

Examinations for admission into the beneficiary scholarships established at the recent session of the Legislature are held by the various county boards of education, and cannot be given at the College. For further particulars in regard to these scholarships, see page 53.

Prescribed Courses of Study

As briefly described and tabulated on the following pages, six regular four-year courses are offered, each leading to graduation with the degree of Bachelor of Science (B. S.), the course pursued being designated on the diploma.

The two agricultural courses are alike in the freshman year, and agricultural students are, therefore, required to choose between these at the beginning of the sophomore year. The other four courses are alike during the first two years, and choice between them is made at the beginning of the junior year. The descriptions accompanying the detailed schedules of studies in the various courses are intended to aid the student in arriving at an adequate estimate of the scope and purposes of each course, in order that he may the more intelligently choose between them.

In all the courses, two hours of practical work in shop, laboratory, or field, are regarded as equivalent to one hour of "theoretical" work, or recitations, as no outside prepara-

tion is required for practical work, and the exercises are completed in the periods assigned in the curriculum.

Change from one course to another is not permitted except upon approval of the Faculty. Any student desiring to change his course of study must submit a written application to the Presirent for such change within thirty days from the date of his matriculation for the current session.

When change is made at beginning of sophomore year, from one of the engineering courses to the agricultural course or from the agricultural to one of the engineering courses, the student is required to make up the equivalent of three practical hours per week for a year in whatever subject the director of the department shall specify.

COURSE I.—AGRICULTURE

This is a broad educational course, covering the whole field of natural sciences that are tributary to the agricultural industry, together with a liberal amount of mathematics, English, physics, history and political economy, and a maximum amount of chemistry.

The division of the original course into (1) Agriculture and Horticulture, and (2) Agriculture and Animal Industry, described on the following page, has been made in order to afford opportunity for election in these lines. In this course the student is given more special training in agriculture, horticulture, chemistry, botany, bacteriology, and entomology; and thus is laid a foundation upon which he may readily specialize in any of these branches after graduation. The student is well equipped to take up farming, gardening, or fruit growing as an occupation, or for the pursuit of investigational work in the United States Department of Agriculture or the various state experiment stations.

Either of the agricultural courses forms an excellent foundation for the study of other professions, particularly that of medicine.

COURSE I.—AGRICULTURE

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Term	Second Term	Third Term
Mathematics (520, 521)	5	5	5
English (501)	5	5	5
History (511, 512)	3	3	3
Agriculture (100)	2	—	—
Botany (100)	—	2	2

PRACTICAL	Hours per week: First Term	Second Term	Third Term
Woodwork (261)	3	3	—
Forge Work (242)	—	—	3
Freehand Drawing (230)	3	3	3
Rural Architecture (233)	3	3	3
Agriculture (100)	3	—	—
Botany (100)	—	3	3
Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522)	5	—	—
English (502)	3	3	3
Chemistry (300)	3	3	3
Physics (220)	2	2	2
Surveying (530)	—	2	2
Physiology (140)	1	1	—
Agriculture (101)	—	1	3
Horticulture (120)	1	3	2

Veterinary Science (131)	—	—	2
Botanical Lab. (171)	3	2	—
Chemical Lab. (301)	3	2	2
Surveying Field (530)	—	2	2
Physiological Lab. (140)	2	2	—
Agriculture (102)	2	2	4
Horticulture (120)	2	2	2
Military Drill (602)	3	3	3

Junior Class

English (503)	2	2	2
German (540)	2	2	2
History (513, 514)	2	2	2
Chemistry (302)	2	2	2
Rural Engineering (534)	2	—	—
Zoology (141)	—	2	—
Agriculture (104)	—	—	4
Horticulture (121)	2	2	2
Dairying (161)	2	2	—
Military Science (600)	1	1	1

Rural Engineering (534)	2	—	—
Chemical Laboratory (303)	4	4	4
Zoological Lab. (141)	—	5	—
Botanical Laboratory (171)	—	—	3
Agriculture (102, 104)	3	—	2
Horticulture (121)	—	3	3
Dairying (162)	3	—	—
Military Drill (602)	3	3	3

Senior Class

English (504)	—	2*	3
German (541)	2	2	2
Political Economy (515)	3	2*	—
Chemistry (304)	2	2	2
Geology (112)	2	3	1
Entomology (142)	—	3	2
Bacteriology (173)	—	—	2
Agriculture (105, 106)	2	2	2
Stock Feeding (156)	3	—	—
Military Science (601)	1	1	1

Chemical Laboratory (305)	4	4	4
Entomological Lab. (142)	2	2	2
Forestry (172)	4	—	—
Bacteriological Lab. (174)	—	2	4
Agriculture (107)	2	2	2
Horticulture (122)	2	—	—
Mineralogy (117)	—	2	—
Military Drill (602)	3	3	3

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE Ia.—AGRICULTURE AND CHEMISTRY

This is a differentiation of the original Course in Agriculture for the purpose of affording students specially interested in Chemistry, Mineralogy and Bacteriology an opportunity to receive more instruction in these subjects than is offered by the other Agricultural Courses. There is a growing demand for well-trained chemists, and the students who propose to select the profession of chemistry will find that this course is well arranged to give them a good foundation in the science and at the same time furnish them a liberal education.

COURSE IA—AGRICULTURE AND CHEMISTRY

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Terms	Second Term	Third Term	PRACTICAL	Hours per week: First Terms	Second Term	Third Term
Mathematics (520, 521)	5	5	5	Woodwork (261)	3	3	—
English (501)	5	5	5	Freehand Drawing (230)	3	3	3
History (511, 512)	3	3	3	Rural Architecture (233)	3	3	3
Agriculture (100)	2	—	—	Agriculture (100)	3	3	3
Botany (100)	—	2	2	Forge Work (242)	—	—	3
				Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522)	5	—	—	Veterinary Science (131)	—	—	2
English (502)	3	3	3	Botanical Lab. (171)	3	2	—
Chemistry (300)	3	3	3	Chemical Lab. (301)	3	2	2
Physics (220)	2	2	2	Surveying Field (530)	—	2	2
Surveying (530)	—	2	2	Physiological Lab. (140)	2	2	—
Physiology (140)	1	1	—	Agriculture (102)	2	2	4
Agriculture (102)	—	1	3	Horticulture (120)	2	2	2
Horticulture (120)	1	3	2	Military Drill (602)	3	3	3

Junior Class

English (503)	2	2	2	Mineralogy (111)	2	2	2
German (540)	2	2	2	Rural Engineering (534)	2	2	—
History (513, 514)	2	2	2	Chemical Laboratory (303)	6	6	6
Chemistry (302)	2	2	2	Agriculture (103, 104)	2	—	2
Rural Engineering (534)	2	2	—	Horticulture (121)	—	2	2
Mineralogy (111)	2	2	2	Military Drill (602)	3	3	3
Agriculture (103, 104)	—	—	4				
Horticulture (121)	2	2	—				
Military Science (600)	1	1	1				

Senior Class

English (504)	—	2*	3	Chemical Laboratory (305)	6	6	6
German (541)	2	2	2	Forestry (172)	4	—	—
Political Economy (515)	3	2*	—	Bacteriological Lab. (173)	—	2	4
Chemistry (304)	2	2	2	Agriculture (117)	2	2	2
Geology (112)	2	3	1	Horticulture (122)	—	2	—
Forestry (172)	2	—	—	Military Drill (602)	3	3	3
Bacteriology (173)	1	3	4				
Agriculture (105)	2	2	2				
Military Science (601)	1	1	1				

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE II.—AGRICULTURE AND ANIMAL INDUSTRY

This is a differentiation of the original course in agriculture for the purpose of affording students specially interested in general animal industry, dairying and veterinary medicine an opportunity to receive more instruction in these lines than was formerly practicable. There is a growing interest in animal industry throughout the State, and this course is intended to meet the demand for more specialized training in this phase of agriculture. In order to afford more time for instruction in these branches, some important, but less essential studies, have been omitted; but mathematics is retained through the second year and a special course in rural engineering put in the third year. English, history and civics are retained throughout the course, drawing the first year, physics the second year, geology the last year and chemistry the last three years, but slightly reduced and changed to meet the demands of this new course. Botany, bacteriology, zoology and entomology are so planned as to begin the first year of the course and thereby contribute to clearer knowledge of farm crops, live stock, dairying, sanitation and animal diseases. General agriculture is taught during the first two years, horticulture the third and vetinary medicine the last three years; while live stock and dairying are taught throughout the course. The live stock work embraces the study of the breeds of horses, cattle, sheep, hogs and poultry, and includes judging, breeding, feeding, care and management of flocks and herds. In the dairy course are taken up the production, handling, manufacture and marketing of whole milk, cream, ice-cream, butter and cheese.

COURSE II.—AGRICULTURE AND ANIMAL INDUSTRY

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Term	Second Term	Third Term
Mathematics (520, 521)	5	5	5
English (501)	5	5	5
History (511, 512)	3	3	3
Agriculture (100)	2	—	—
Botany (100)	—	2	2

PRACTICAL	Hours per week: First Term	Second Term	Third Term
Woodwork (261)	3	3	—
Freehand Drawing (230)	3	3	3
Rural Architecture (233)	3	3	3
Agriculture (100)	3	—	—
Botany (100)	—	3	3
Forge Work (242)	—	—	3
Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522)	5	—	—
English (502)	3	3	3
Chemistry (300)	3	3	3
Physics (220)	2	2	2
Surveying (530)	—	2	2
Physiology (140)	1	1	—
Agriculture (101)	—	1	3
Live Stock (152, 153)	1	3	2

Veterinary Science (130)	—	2	2
Chemical Laboratory (301)	3	2	2
Botanical Lab. (171)	3	—	—
Surveying Field (530)	—	2	2
Physiological Lab. (140)	2	2	—
Agriculture (102)	2	2	4
Live Stock (154)	2	2	2
Military Drill (602)	3	3	3

Junior Class

English (453)	2	2	2
German (540)	2	2	2
History (513, 514)	2	2	2
Chemistry (302)	2	2	2
Zoology (141)	—	—	4
Horticulture (120, 121)	2	2	—
Dairying (161)	2	2	—
Veterinary Science (132)	2	2	2
Military Science (600)	1	1	1

Chemical Laboratory (303)	4	4	4
Zoological Lab. (141)	—	—	4
Horticulture (120, 121)	2	2	2
Dairying (163)	3	4	—
Veterinary Science (133, 134)	—	2	2
Agriculture (102)	3	—	—
Military Drill (602)	3	3	3

Senior Class

English (504)	—	2*	3
German (541)	2	2	2
Political Econony (515)	3	2*	—
Chemistry (304)	2	2	2
Geology (112)	2	3	1
Bacteriology (173)	—	—	2
Stock Feeding (157, 158, 160)	2	2	2
Veterinary Science (135-6-7)	3	3	2
Military Science (601)	1	1	1

Chemical Laboratory (305)	3	3	3
Entomological Lab. (142)	3	3	—
Bacteriological Lab. (173)	—	2	4
Live Stock (159)	3	3	—
Veterinary Science (138)	3	3	3
Military Drill (602)	3	3	3

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE III.—CHEMISTRY AND GEOLOGY

This course is intended to equip the student for engaging in manufacturing, operations involving metallurgy or other branches of inorganic chemistry, or for employment as assayer or chemist in connection with mining operations. It also furnishes a basis upon which he may readily specialize in mining or geology, with a view to conducting actual mining enterprises or to employment in responsible positions on state or national surveys.

The student is well grounded in the principles of chemistry, physics, mechanics, geology and mineralogy, but the principal stress is laid on geology and metallurgical chemistry. He also acquires valuable practical knowledge of surveying, mechanical engineering, foundry practice, drawing and designing, in addition to the pursuit of courses in English, history, political economy, and other subjects of general educational value.

The first two years of the course are the same as in the engineering courses. The third and fourth years differ chiefly in the substitution of advanced work in chemistry and metallurgy and in geology and mineralogy for the higher mathematics and technical engineering work.

For further particulars see the detailed descriptions of subjects tabulated on the opposite page.

COURSE III.—CHEMISTRY AND GEOLOGY

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

	Hours per week		
	First Term....	Second Term..	Third Term....
THEORETICAL			
Mathematics (520, 521).....	5	5	5
English (501).....	5	5	5
History (511, 512).....	3	3	3
Agriculture (101).....	2	2	2
PRACTICAL			
Woodwork (260).....	3	3	3
Freehand Drawing (230).....	3	3	3
Mechanical Drawing (232).....	3	3	3
Forge Work (240).....	3	3	3
Military Drill (602).....	3	3	3

Sophomore Class

Mathematics (522-4-5).....	5	3	3
English (502).....	3	3	3
History (513, 514).....	2	2	2
Chemistry (300).....	3	3	3
Physics (220).....	2	2	2
Surveying (530).....	—	2	2
Foundry (241).....	2	3	3
Pattern Making (262).....	2	3	3
Mechanical Drawing (234).....	2	2	2
Chemical Lab. (301).....	3	2	2
Descriptive Geom. (523).....	3	—	—
Surveying Field (530).....	—	2	2
Military Drill (602).....	3	3	3

Junior Class

English (503).....	2	2	2
Chemistry (302).....	2	2	2
Mineralogy (111).....	2	2	2
Geology (113).....	4	4	4
Physics (221).....	2	2	2
Mechanism (210).....	2	—	—
Mechanics (211).....	—	2	2
Military Science (600).....	1	1	1
Assaying (303).....	2	2	2
Chemical Lab. (303).....	4	4	4
Mineralogical Lab. (111).....	2	2	2
Mechanical Drawing (237).....	2	2	2
Physical Lab. (222).....	2	2	2
Military Drill (602).....	3	3	3

Senior Class

English (504).....	—	2*	3
Political Economy (515).....	3	2*	—
Chemistry (306).....	2	2	2
Metallurgy (310).....	2	2	3
Economic Geology (115).....	2	3	4
Petrography (114).....	2	2	2
Mechanical Eng. (213).....	3	3	—
Military Science (601).....	1	1	1
Chemical and Metallurgical Laboratory (311).....	6	6	6
Practical Geol. (116).....	3	3	3
Mechanical Lab. (215).....	3	3	3
Military Drill (602).....	3	3	3

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE IV—MECHANICAL AND ELECTRICAL ENGINEERING

This course is designed to fit young men for responsible positions in the various departments of these professions. It attempts, by practical and theoretical instruction, to lay a solid scientific foundation upon which the student may build rapidly after graduation. The experience necessary to make a successful engineer cannot be acquired in a college course, but the technically educated graduate usually soon distances his uneducated competitors.

While devoting considerable time to purely technical work, it is recognized that to obtain the best ultimate results, the student should be given a thorough training in the English language and as broad and liberal a culture as the time available and his previous preparation will permit. Seeking in some degree to attain this end, such studies as history, English literature, civics, economics, geology, and botany are taught in the course, as well as the partly technical sciences, mathematics, physics, and chemistry.

Within the department are taught physics, mechanics, and mechanical and electrical engineering. Along with the theoretical instruction in these subjects, practice is given in laboratories equipped with the best modern apparatus.

Shop instruction is given in carpentry, turning, and pattern-making; in moulding; chipping and filing, and the use of machine tools. The purpose of this instruction is not to turn out skilled artisans, but rather men capable of directing enterprises into which these trades enter as component parts.

The work in drawing is made one of the features of the course, including instruction in freehand drawing in the first year, mechanical drawing during the first three years and machine design in the fourth year.

Graduates from this course are filling responsible positions in various lines of mechanical and electrical engineering and in drawing.

COURSE IV—MECHANICAL AND ELECTRICAL ENGINEERING

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Term	Second Term	Third Term	PRACTICAL	Hours per week: First Term	Second Term	Third Term
Mathematics (520, 521)	5	5	5	Woodwork (260)	3	3	3
English (501)	5	5	5	Freehand Drawing (230)	3	3	3
History (511, 512)	3	3	3	Mechanical Drawing (232)	3	3	3
Agriculture (101)	2	2	2	Forge Work (240)	3	3	3
				Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522-4-5)	5	3	3	Foundry (241)	2	3	3
English (502)	3	3	3	Pattern Making (262)	2	3	3
History (513, 514)	2	2	2	Mechanical Drawing (234)	2	2	2
Chemistry (300)	3	3	3	Chemical Lab. (301)	3	2	2
Physics (220)	2	2	2	Descriptive Geom. (523)	3	—	—
Surveying (530)	—	2	2	Surveying Field (530)	—	2	2
				Military Drill (602)	3	3	3

Junior Class

Mathematics (525-527)	5	5	5	Mechanical Drawing (235)	3	3	3
English (503)	2	2	2	Machine Shop (250)	3	3	3
Physics (221)	2	2	2	Physical Lab. (222)	3	3	3
Electrical Eng. (200)	3	3	3	Electrical Lab. (201)	3	3	3
Mechanism (210)	2	—	—	Military Drill (602)	3	3	3
Mechanics (211)	—	2	2				
Military Science (600)	1	1	1				

Senior Class

English (504)	—	2*	3	Machine Shop (251)	3	3	3
Political Economy (515)	3	2*	—	Machine Design (238)	3	3	3
Electrical Eng. (202)	5	5	5	Electrical Lab. (203)	3	3	3
Mechanical Eng. (213)	3	3	5	Mechanical Lab. (214)	3	3	3
Mechanics (212)	2	2	—	Military Drill (602)	3	3	3
Geology (112)	1	2	1				
Military Science (601)	1	1	1				

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE V.—CIVIL ENGINEERING

This course is intended to prepare young men for entrance upon professional practice in some of the many branches of civil engineering, and also to meet the needs of those who, having been engaged in engineering work without a course of instruction, desire to equip themselves for more successful competition with those who have had such instruction.

In connection with the technical studies, liberal training is given in English, history, economics, pure mathematics and the physical sciences. The course will also be found to embrace the same amount of drawing, shop work, mechanical engineering and mechanical laboratory practice as the other engineering course.

The distinctive work pursued by students in this course includes the study of land surveying and plotting, topographic surveying and mapping; location, construction, and maintenance of roads, railroads, streets and pavements; strength of materials, masonry construction, foundations on land and in water; analytic and graphic investigations of stresses in girders, roofs, and bridges, and the design of these structures; the principles of hydraulics as applied to dams, reservoirs, canals, municipal water works, and the development of water power.

For fuller details, see descriptions of instruction in these subjects.

COURSE V.—CIVIL ENGINEERING

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Term	Second Term	Third Term	PRACTICAL	Hours per week: First Term	Second Term	Third Term
Mathematics (520, 521)	5	5	5	Woodwork (260)	3	3	3
English (501)	5	5	5	Freehand Drawing (230)	3	3	3
History (511, 512)	3	3	3	Mechanical Drawing (232)	3	3	3
Agriculture (101)	2	2	2	Forge Work (240)	3	3	3
				Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522-4-5)	5	3	3	Foundry (241)	2	3	3
English (502)	3	3	3	Pattern Making (262)	2	3	3
History (513, 514)	2	2	2	Mechanical Drawing (234a)	2	2	2
Chemistry (300)	3	3	3	Chemical Lab. (301)	3	2	2
Physics (220)	2	2	2	Descriptive Geom. (523)	3	—	—
Surveying (530)	—	2	2	Surveying Field (530)	—	2	2
				Military Drill (602)	3	3	3

Junior Class

Mathematics (525-527)	5	5	5	Mechanical Drawing (236)	3	3	3
English (503)	2	2	2	Machine Shop (250)	3	3	3
Physics (221)	2	2	2	Physical Lab. (222)	2	2	—
Civil Engineering (531-3)	3	3	3	Civil Eng. Field (531-3)	4	4	3
Mechanism (210)	2	—	—	Mineralogical Lab. (110)	—	—	3
Mechanics (211)	—	2	2	Military Drill (602)	3	3	3
Military Science (600)	1	1	1				

Senior Class

English (504)	—	2*	3	Mechanical Drawing (239)	3	3	3
Political Economy (515)	3	2*	—	Mechanical Lab. (214)	3	3	3
Civil Engineering (535-7)	5	5	5	Civil Eng. Field (535-7)	6	6	6
Mechanical Eng. (213)	3	3	5	Military Drill (602)	3	3	3
Mechanics (212)	2	2	—				
Geology (112)	1	2	1				
Military Science (601)	1	1	1				

*Political Economy ends and Senior English begins at the middle of the second term.

COURSE VI.—TEXTILE INDUSTRY

This department was established primarily to direct young men in their study of the textile fibres, to teach their manipulation, and the after processes of manufacture required by the trade.

The principles underlying the art of manufacture are taught by lecture, text-book, and experiment; skill is acquired by intimate contact with the machinery equipment, which consists of various types of machines designed by the prominent builders of cotton machinery in this country.

The aim has been to arrange a course in which the student will be allowed the opportunity of acquiring a good general education along with this special training in textiles. For this reason, in order to allow time to be devoted to culture studies, and to instruction in the general principles of the sciences involved in manufacture, the course does not follow special lines closely until the junior year.

During the junior and senior years, in which more time is devoted to textile subjects, the student is brought face to face with facts and conditions, from the proper observation and study of which he may obtain information and experience that would take him years to acquire in the mills.

This course does not presume to fit one for the management of a mill, but is intended to give the student a broad foundation on which to specialize, and the graduate is in possession of such information, and has acquired such experience and knowledge in handling raw materials and manufacturing machinery as, if supplemented by energy, application, and tact, will soon lead to rapid advancement in the special line of work taken up.

COURSE VI.—TEXTILE INDUSTRY

(Numbers in parentheses refer to descriptions beginning on page 89.)

Freshman Class

THEORETICAL	Hours per week: First Term	Second Term	Third Term	PRACTICAL	Hours per week: First Term	Second Term	Third Term
Mathematics (520, 521)	5	5	5	Woodwork (260)	3	3	3
English (501)	5	5	5	Freehand Drawing (230)	3	3	3
History (511, 512)	3	3	3	Mechanical Drawing (232)	3	3	3
Agriculture (101)	2	2	2	Forge Work (240)	3	3	3
				Military Drill (602)	3	3	3

Sophomore Class

Mathematics (522-4-5)	5	3	3	Foundry (241)	2	3	3
English (502)	3	3	3	Pattern Making (262)	2	3	3
History (513, 514)	2	2	2	Mechanical Drawing (234)	2	2	2
Chemistry (300)	3	3	3	Chemical Lab. (301)	3	2	2
Physics (220)	2	2	2	Descriptive Geom. (523)	3	—	—
Surveying (530)	—	2	2	Surveying Field (530)	—	2	2
				Military Drill (602)	3	3	3

Junior Class

Mathematics (525-527)	5	5	5	Machine Shop (250)	3	3	3
English (503)	2	2	2	Chemical Lab. (303, 420)	3	3	3
German (540)	2	2	2	Weaving (410, 411)	3	3	3
Textile Chemistry (420)	1	1	1	Carding and Spinning (400, 406)	3	3	3
Designing (412)	1	1	1	Military Drill (602)	3	3	3
Carding and Spinning (400, 406)	1	1	1				
Mechanism (210)	2	—	—				
Mechanics (211)	—	2	2				
Military Science (600)	1	1	1				

Senior Class

English (504)	—	2*	3	Mechanical Lab. (215)	—	3	3
German (541)	2	2	2	Cam Drawing (239a)	2	—	—
Political Economy (515)	3	2*	—	Carding and Spinning (407, 409)	3	2	3
Mechanical Eng. (213)	3	3	—	Dyeing (421)	4	4	3
Carding and Spinning (407, 409)	2	2	2	Weaving (410, 411)	4	4	4
Textile Chemistry (421)	1	1	1	Military Drill (602)	3	3	3
Designing (412)	2	2	2				
Cloth Analysis (414)	—	1	1				
Jacquard Designing (413)	—	—	2				
Military Science (601)	1	1	1				

*Political Economy ends and Senior English begins at the middle of the second term.

Special Courses

Besides students in the usual undergraduate courses, there may be farmers and others of mature age, including graduates of other institutions, who desire to avail themselves of the special privileges offered by the College. To such persons the opportunity is offered, under the advice of the director of the department in which work is contemplated, to pursue special lines of study or investigation in any of the subjects taught in the College, provided attention can be given to them without detriment to the regular classes. Such special students will be admitted after they have satisfied the director of the department that they are qualified to pursue the work with profit.

Special students are excused from military duty, but are subject to the general regulations of the College requiring good conduct and diligent prosecution of the course selected. They are not admitted to barracks, but rooms and board may be secured in the community at reasonable rates. They will be required to pay the usual fees, except the price of the uniform and board in barracks.

Special Course in Electrical Engineering

Students desiring to take a special course in electrical engineering should remember that no one can hope to become an electrical engineer who has not the necessary foundations in mechanical engineering, to which electrical engineering is a superstructure. Two-thirds of an electrical engineer's training must be mechanical. No special classes will be formed, and students desiring to enter the junior class will be expected to be prepared on elementary mechanical drawing, physics and chemistry, and on mathematics, through plane trigonometry. They will be expected to take with the junior class, in addition to their electrical studies, physics, mechanics, mathematics, mechanical drawing and machine shop work. Without these additional

branches the student will not be prepared for the more strictly engineering work of the senior year.

To enter the senior class, a student must be proficient in the work of the junior year, in which physics and calculus are completed.

In addition to the electrical subjects prescribed for the senior year, he must take—unless he is proficient along these lines—mechanics, mechanical engineering and laboratory, machine shop, drawing and machine design.

Students who are not prepared, or are not willing to take the other subjects necessary to successful study of electrical engineering, will not be permitted to take a special course in this line.

Special Textile Course

To meet the demands of southern conditions for a class of young men trained in the finer details of cotton manufacture, a special two-year course has been arranged to accommodate a limited number of students who may not be in a position to take the regular four-year textile course, as scheduled and described on the preceding pages.

The course includes mathematics (beginning algebra), English, freehand and mechanical drawing, carding, spinning, weaving and designing, and is thoroughly practical and allows a greater portion of the student's time to be devoted to the pursuit of textiles in its several branches.

To pursue this course successfully, the student must be well grounded in arithmetic, and should be capable of expressing his thoughts clearly in writing. The student seeking admission to this course must present himself at the College during the regular entrance examination period, September 11th to 16th, 1907, and satisfy his instructors that he is prepared to undertake the work. No student will be admitted after that time. Students must be at least 18 years of age, and must have had at least one year's experi-

ence in some cotton mill. They will not be required to perform military duty, but will be subject to the general rules and regulations of the College. Students who have failed in the regular College courses will not be allowed to change to this course. No diploma is conferred upon the completion of this work, but the student receives a certificate showing that he has finished the course.

Course of Study

FIRST YEAR.	Hours Per Week. 1st Term.	Hours Per Week. 2d Term.	Hours Per Week. 3d Term.
Mathematics (begin Algebra)	5	5	5
Freshman English	5	5	5
Carding and Spinning (theory)	2	2	2
Carding and Spinning (practical)	3	3	3
Mechanical Drawing	3	3	3
Designing	3	3	3
Weaving	6	6	6
Free-hand drawing	3	3	3
	30	30	30
SECOND YEAR.			
Mathematics, (complete Geometry)	5	0	0
Sophomore English	3	3	3
Chemistry	3	3	3
Carding and Spinning (theory)	2	2	2
Carding and Spinning (practical)	6	6	6
Chemical Laboratory	2	2	2
Designing	2	3	3
Cloth Analysis and Jacquard Designing	2	3	3
Weaving	5	8	8
	30	30	30

Irregular Courses

Every student is required to pursue one of the regular courses, as scheduled on the preceding pages,unless for special reasons this seems inadvisable or impracticable. In such cases an irregular course may be granted by the Faculty on the following conditions:

1. The course applied for must be such as to fully and profitably occupy the student's time.

2. The application must be accompanied by the written approval of parent or guardian and of instructors in all subjects included in the course.

3. Irregular courses are not granted to students in the preparatory class.

4. Diplomas are not issued to students in irregular courses, but a certificate of proficiency will be given when the work completed is deemed worthy of it.

A student who desires to take an irregular course will be referred to a member of the Faculty, who will advise him in reference to the character of work that is best for him to pursue. After the course has been thus arranged and approved by the Faculty, no other changes will be allowed without the endorsement of his adviser.

Preparatory Courses

If a boy is not sufficiently advanced to enter the freshman class and the President concludes that said boy has not had, and can not get, sufficient school facilities at or near his home to prepare him to enter the freshman class, then he will be allowed to enter the preparatory class. In this class thorough instruction is given in the elements of English, mathematics, history, and geography.

If a boy has had or can get sufficient school facilities at or near his home then he must stand his examination for one of the College classes and, failing to pass the required

examination for the freshman class, will not be allowed to enter the preparatory class, but must return home.

The instruction in this department is under the immediate supervision of the professors of English, mathematics, history, and geology in the College, and is closely articulated with the work of the advanced classes.

The course of study is as follows:

Arithmetic, 5 hours a week.

Algebra, 5 hours a week.

Grammar and Composition, 5 hours a week.

Reading and Spelling, 5 hours a week.

Geography, 2 hours a week.

History, 3 hours a week.

Students who satisfactorily complete this course will be advanced to the freshman class. Those who fail to pass to the higher class may review the course the next session. Upon recommendation of the instructors of the department, a student in the preparatory class may be permitted, at any time during the session, to stand examinations for admission to the freshman class.

Reports, Grades and Promotions

Reports of class-standing and discipline are sent to parents at intervals of approximately one month throughout the session. During 1907-1908 these reports will be made up for the periods ending on the following dates, and will usually be mailed to parents about one week later: Oct. 25th and Dec. 13th,* 1907; Feb. 7th, Mar. 6th,* Apr. 17th, and May 29th,* 1908. Dates marked with the asterisk (*) are approximate, depending upon the beginning of the respective term examinations.

The session is divided into three terms, ending Dec. 22d, 1907, March 13th, and June 7th, 1908, respectively. Examinations are held at the close of each term, and reports are sent to parents giving the results of these examinations

and also the averages of monthly grades in all subjects pursued by the student. The student must attain at least the pass-mark, 60 per cent., on both examination grade and term average in each term separately and in every subject in his course, in order to be entitled to promotion to the next higher class.

No student is entitled to a second examination in any subject, except by special permission of the Faculty. In case of only one or two failures such permission is usually granted, provided the student's record indicates a reasonable degree of application to his studies.

Students whose conditions have not been removed by the opening of the next session will be required to take the work of the preceding year over, unless for special reasons an extension of time is allowed.

Students who are taking over the work of any year in a regular course, or who for any reason have been put back from a higher to a lower class, are required to take the full work of that class.

A student taking any subject over waives the right to all previous records in that subject, and is placed upon the same footing as students taking the work for the first time.

Parents will be advised to withdraw students who habitually shirk duties.

Degrees, Medals and Honors

The degree of Bachelor of Science (B. S.) will be conferred on any student who satisfactorily completes one of the prescribed four-year courses of study, as tabulated on the preceding pages, and submits an approved thesis not later than June 1st of his senior year. The course pursued is indicated on the diploma.

Distinguished Students.—Students who make first grade (90 per cent. or over) in all studies for any session are

designated as *distinguished*, and their names are published in the catalogue of the succeeding year.

Trustees Medal.—The Board of Trustees has established a gold medal to be awarded annually to the best speaker among the representatives of the literary societies at commencement. These representatives are chosen by judges selected by the societies at the annual public exercises in Memorial Hall. The medal is awarded by judges selected by the Faculty. Won in 1906 by D. B. Peurifoy, '07.

Literary Society Medal.—It is customary for the three literary societies to award gold medals annually for excellence in debate, oratory, and declamation. The medals for excellency in debate were won by P. H. Adams, Calhoun; C. W. Wannamaker, Columbian; E. H. Jones, Palmetto.

In oratory by T. E. Keitt, Calhoun; D. B. Peurifoy, Columbian; W. O. Pratt, Palmetto.

In declamation by E. V. Garrett, Calhoun; H. P. Riser, Columbian; H. K. Strickland, Palmetto.

The Chronicle Medals.—*The Chronicle*, the monthly magazine published by the literary societies, also usually awards three gold medals, for the best story, the best poem, and the best essay contributed by students during the year. Won in 1906 by A. F. Cleveland, for best story; by F. B. McLaurin, for best poem; and by H. W. Moore, for best essay.

The Colors of Battalion are awarded at the close of each session to the best drilled battalion, and are carried by it during the succeeding session. In June, 1906, this distinction was won by the First Battalion, T. E. Stokes, Cadet Major.

A blue silk C. A. C. Flag is awarded June of each year to the best drilled company, and carried by it during the succeeding year. This was won in June, 1906, by Company "D," L. R. Hoyt, Captain.

R. W. Simpson Medal.—A gold medal thus designated is awarded annually to the best drilled cadet in the freshman, sophomore and junior classes. This medal was won in 1906 by Cadet C. W. Busch, class of 1908.

Publication in Official Army Register.—The names of the three graduates most distinguished in the Military Department each year are published in the Official Army Register of the succeeding year. At the end of the session 1905-1906, the names of T. E. Stokes, W. P. White and F. T. Barton were published.

The Commandant is also required to report annually to the War Department the names of the three cadets most eligible for appointment as officers in the United States Army. At the end of session 1905-1906, T. E. Stokes, W. P. White and F. T. Barton were recommended.

Second Lieutenancy U. S. Army.—General Orders, No. 39, War Department, contains the following paragraph:

"The reports of the regular inspections of the colleges and schools to which officers of the Army are detailed in pursuance of law as principals or instructors will annually hereafter be submitted to the General Staff for its critical examination, and the Chief of Staff shall report to the Secretary of War, from the institutions which have maintained a high standard, the six institutions whose students have exhibited the greatest interest, application, and proficiency in military training and knowledge. The President authorizes the announcement that an appointment as second lieutenant in the Regular Army from each one of the said six institutions will be awarded to an honor graduate who has taken a military course thereat, provided that sufficient vacancies exist after caring for the graduates of the Military Academy at West Point and the successful competitors in the annual examination of enlisted men."

The term "honor graduate" signifies any graduate who would rank as one of the first five of his class.

Fees and Expenses

The regular fees and charges for the session of 1907-1908 will be as follows:

Incidental fee	$ 5 00
Medical fee	5 00
Uniform	23 00
Khaki Uniform	5 20
Board and washing	67 52
Breakage fee	3 00
Tuition	40 00
Total	$148 72

These charges must be paid in quarterly installments as follows:

September 11th, 1907	$62 88
November 13th, 1907	26 88
January 29th, 1908	26 88
April 1st, 1908	26 88

Remittances should be made in cash, or by money order or New York exchange—*not by local check*—to Dr. P. H. E. Sloan, Treasurer, Clemson College, S. C. Banks charge exchange on local checks.

A deduction will be made for board and washing only when a student is absent one month or more.

The breakage fee is a deposit to cover damage or destruction of College property, and any amount remaining to the credit of a student at the end of the session will be returned to him. Whenever College property is damaged the cost of repair is charged to the individual student, if the responsibility can be determined. Otherwise the cost is divided equally among all the students. Any student whose breakage account exceeds $3.00 will be required to make another deposit.

A fee of $1.50 is charged for diploma, payable before graduation.

*The price of uniform is subject to market fluctuations, and cadets often need a second pair of trousers.

The above charges do not include cost of books and stationery, which, however, may be obtained at the Cadet Exchange at wholesale prices.

Each student must provide himself with 4 sheets, 2 blankets, a comfort, 6 towels, 1 pillow, 2 pillow cases, 1 mattress. Beds are single width. Mattresses will be kept by the College at wholesale prices.

Free Tuition

Section 1120, Revised Statutes of South Carolina, 1893, Vol. I., setting forth the powers and duties of the Board of Trustees, contains the following provision:

"They shall charge each student a tuition fee of forty dollars per annum; ..... indigent students shall not be required to pay said tuition fee."

In accordance with this law, residents of South Carolina are granted free tuition upon presentation of a certificate, signed by father or guardian and the County Auditor.

Certificate blanks will be furnished upon application to the President.

For students receiving free tuition the quarterly charges will be $10 less in each case than the amounts given above, namely:

September 13th, 1907	$52 88
November 13th, 1907	16 88
January 29th, 1908	16 88
April 1st, 1908	16 88

The total charges for the year in such cases are only $108.72.

Agricultural Scholarships

By an Act of the State Legislature in the session of 1904, and amended in session of 1907, 165 beneficiary scholarships were established, of the value of $100 per annum each, and apportioned among the counties in the same manner as the members of the Senate and House of Representatives.

The law provides "That the said scholarships shall be awarded by the State Board of Education, upon the recommendation of the County Boards of Education of the several counties, to the most worthy and needy young men of such age as is fixed by the Board of Trustees of said College for other students, who shall have passed an approved entrance examination upon the common school branches and made at least sixty per cent. upon such examination; and preference shall be given to those young men who desire to take the agricultural course and the textile courses: *Provided*, That not more than one scholarship from each County shall be open to the textile course.

Examination questions are to be prepared by the President and Faculty of the College and sent to the County Board of Education of each county on or before the 15th day of July in each year, with a statement of the number of vacant scholarships to which the county is entitled. The County Boards of Education shall hold the examinations by numbers, *i. e.*, by requiring each applicant to draw a number from a miscellaneous collection of numbers furnished by the County Board. Each applicant shall then seal his name in an envelope, which shall be kept sealed by County Boards of Education. The applicants shall then put their numbers and not their names on their papers. The papers shall be forwarded to the President of Clemson College and the members of the Faculty of that institution, who may be designated by the President, shall examine the papers and return the marks of the applicant to the County Boards of Education by the numbers as furnished to them. The County Boards of Education shall then open the envelopes containing the names and make recommendations as to the award of the scholarships to the State Board of Education.

Section 4 reads, "That before applying for said scholarships applicants shall make proof under oath to their respective County Boards of Education, as required by law

for scholarships in the South Carolina Military Academy, of their financial inability to attend college, before they shall receive from said Board permission to stand such examination."

The law further provides that these scholarships "shall each continue for the term of four years, or for such length of time as the beneficiary shall be able to maintain himself and comply with the rules of the College; and said sum of one hundred dollars per annum shall be placed to the credit of each of said beneficiaries, and applied towards the payment of his board and other necessary school expenses."

NOTE: The $100.00 does not include the Khaki uniform.

Textile Scholarships for Two-Year Course

Victor Mfg. Co. Scholarship. Established by Lewis W. Parker.

Willimantic Scholarship. "In memory of W. E. Borrows, a friend of mill operatives." Open to any resident of the State in need of assistance, and who is recommended by his employer.

Metz Scholarship, by H. A. Metz, of H. A. Metz & Co., New York.

Draper Scholarship, by Draper Co., Hopedale, Mass.

These scholarships are valued at $50.00.

County Apportionment

The one hundred and sixty-five scholarships provided for in this institution by the Legislature are apportioned to the Counties of the State according to law, as follows:

Abbeville	4	Hampton	3
Aiken	5	Horry	3
Anderson	6	Kershaw	3
Bamberg	3	Lancaster	3
Barnwell	4	Laurens	4
Beaufort	4	Lee	3
Berkeley	4	Lexington	4
Charleston	9	Marlboro	4
Cherokee	3	Marion	4
Chester	4	Newberry	4
Chesterfield	3	Oconee	3
Clarendon	4	Orangeburg	6
Colleton	4	Pickens	3
Darlington	4	Richland	5
Dorchester	2	Saluda	3
Edgefield	3	Sumter	4
Fairfield	4	Spartanburg	7
Florence	4	Union	3
Georgetown	3	Williamsburg	4
Greenville	6	York	5
Greenwood	4		

GROUNDS, BUILDINGS AND EQUIPMENT

Grounds and Buildings

Campus and Farm.—The College grounds occupy about 1,122 acres of land, including the campus, sites of buildings and residences, grounds for military drill and outdoor athletics, the College farm, and the Experiment Station grounds. The campus, including about 200 acres, is laid out in walks, drives and lawns, and is shaded by a beautiful grove of native forest trees.

The Main Building, Barracks, Etc.

The Main Building is a three-story brick structure, 130 by 140 feet, trimmed with gray sandstone. It contains twenty-two rooms, including recitation rooms, library and reading room, literary society and Y. M. C. A. Hall, physical laboratory, besides the offices of the President, the Commandant, the Treasurer and a reception room. Adjoining this building is Memorial Hall, the College chapel, which has a seating capacity of about 1,000. It is used for religious services and as an assembly room. In the tower of this building there is a tower clock. The building is provided with steam heat and electric lights.

The Cadet Barracks comprise two large brick buildings. One is three stories high and contains one hundred and forty-seven rooms for students, a dining hall 134 by 44 feet, and a kitchen 50 by 37 feet. The other building is 199 by 42 feet, and contains 104 rooms. These buildings are heated by steam and lighted by electricity, and have an abundant supply of pure spring water. The rooms in the barracks are furnished with single width iron cots and other necessary appointments. The dining hall is well supplied with table linen, silver ware, and china, and the kitchen is furnished with modern culinary appliances.

The bath rooms and closets are located in brick buildings apart from the barracks and connected with them by covered gangways.

A new barracks is now in process of construction. It will have 100 rooms and will be equipped with the modern conveniences, such as steam heat, electric lights and water.

GYMNASIUM.—A large room in the basement of Agricultural Hall has been set aside by the Board of Trustees for a gymnasium. During the past year, this room was equipped with well-selected gymnasium apparatus. Among the apparatus are to be found a horizontal bar, parallel bar, spring board, travelling rings, flying rings, climbing rope, horse, low parallels, floor mats and take-off board.

The object of the gymnasium is to give to those students interested in athletics, training all the year round, so that they will constantly be in good condition for work on the athletic teams. It is also designed for those students who do not take other forms of exercise and depend upon the gymnasium for their only means of physical development. The work is not required, but is engaged in by a large number of students. A member of the Faculty superintends the work and directs the exercises.

MUSEUM.—On the first floor of Agricultural Hall, the Museum of Natural History is located. During the past year, the museum has been furnished with large cases and the collections of the geologist, entomologist and botanist have been installed.

NEW CENTRAL POWER AND HEATING PLANT.—The College has in course of erection a new Central Heating and Power Plant. This plant will contain 2-150 H. P. Stirling water tube boilers, and 2-100 H. P. Lombard return tubular boilers, with the necessary pumps, feed water heaters, and other auxiliary apparatus.

The power equipment will consist of 1-114 H. P. Fleming side crank engine, direct connected to a 70 K. W. 2,300

volt, 3-phase alternator with direct connected excitor, and 1-122 H. P. Fleming 4 valve engine direct connected to a 3-wire 75 K. W. direct current generator.

A 75 K. W. rotary convertor will be used to convert from one kind of service to the other.

The switch-board equipment will consist of three standard blue Vermont panels, and three black enamelled slate panels, all equipped with the latest and best electrical instruments and appliances. The alternator will be connected to the rotary convertor through 3-25 K. W. transformers. All the machinery is of the General Electric Company's make.

The building is 40 by 80 feet, is a single story of brick and cement blocks, with metal roof.

The new plant will be in complete operation by the opening of the session '07-'08.

THE HOSPITAL, located about a quarter of a mile from the barracks, is a wooden building, especially designed for the purpose. It is lighted by electricity, and has a thorough sewerage system. The hospital is in the immediate charge of the Surgeon, who is assisted by an experienced matron and nurses, thus insuring the best personal attention to each patient.

THE LAUNDRY is a brick building specially constructed and fitted with the improved machinery of a modern steam laundry, and is operated exclusively for students.

Agricultural Buildings

THE AGRICULTURAL HALL is a building 146 by 94 feet, in colonial style, and constructed of red side-cut brick, with columns and trimmings of oolitic limestone. It is furnished with a complete system of electric lights, water and sewer connections, and steam heat; and provides class-rooms and laboratories for instruction in agriculture, horticulture, soil physics, botany and bacteriology, zoology and entomology,

veterinary science, dairying and animal husbandry, geology and mineralogy, and offices for the Experiment Station. It also contains a room 40 by 60 feet, with a gallery, for a natural history museum, and a gymnasium hall of the same dimensions below.

THE HORTICULTURAL GROUNDS embrace an area of thirty acres. Eight acres are devoted to apples for experiment purposes, six acres to peaches, two acres to grapes, two acres to pecans, one acre to plums, seven acres to experiments with small fruits and vegetables, and three acres to ornamental trees, shrubs and flowers.

THE GREENHOUSE is 21x140 feet and is heated by hot water. It is used for class instruction in ornamental horticulture and for experiment work. The house now contains three thousand large pot plants of various kinds and nine thousand small plants used for bedding purposes on the College campus.

There is another greenhouse with a centre building 30x30 feet, and two wings each 20x30 feet.

THE CANNERY is a frame building 25x35 feet. It is equipped for canning fruits and vegetables of all kinds.

THE VETERINARY HOSPITAL is a two-story frame building 48 by 65 feet, with basement 18 by 30 feet. It is furnished with electric lights, hot and cold water and is heated by means of stoves. The basement contains dissecting room and a small room for hot water plant, coal and general storage. On the first floor are rooms for office, instruments and medicines, toilet, horse shoeing, harness closet, and an examining floor, operating table, soaking vat, three box stalls and three tie stalls. On the second floor are rooms for attendant, pharmacy, storage of grain, kennels and cages for small animals and a hay mow.

Convenient to this building is a shed 24x40 feet, enclosed on three sides, but well lighted, and it has a large hay loft. There is a well-sodded lot containing about two acres con-

nected with the hospital. It is fenced with woven wire and divided into three paddocks. In one of these is an open cattle shed 13 by 32 feet, and a chute used in dehorning, inoculations, and other operations where a herd is to be handled.

THE DAIRY BUILDING is a wooden structure constructed and equipped especially to illustrate the most approved methods of dairy practice.

THE EXPERIMENT STATION DAIRY BARN is a new building, 110 by 38 feet, located on one of the highest elevations of the College property. It is a thoroughly modern structure from the standpoint of both convenience and sanitary conditions. It has a concrete floor, is lighted by electricity, and contains water in all parts of the building for washing floors, mixing food, etc. It is fitted with 38 Taylor steel stanchions, which are both strong and comfortable. At one end of the building are four 50-ton silos, and the second floor, which has a capacity of 50 tons of loose hay, is equipped with a hay carrier that will elevate a load of hay at a time.

A smaller barn, 50 feet in the rear, provides hospital stalls for sick cows, and also stalls and pens for young calves.

A number of paddocks and pastures have been provided to facilitate the management and to furnish sufficient pasturage for the stock.

FARM BUILDINGS.—The College farm is provided with commodious barns and other farm buildings of modern design, which are described more fully in connection with the equipment for instruction in agriculture.

Mechanical and Electrical Buildings

THE MECHANICAL BUILDING is a substantial brick structure containing about 30,000 square feet of floor space. On the first floor are the mechanical laboratory, machine shop, forge shop, foundry, and the power and light station.

On the second floor are the offices and recitation rooms, while the wood shop occupies the whole of a two-story wing, 45 by 100 feet. The third floor is entirely occupied by the division of drawing.

THE ELECTRICAL INSTRUMENT LABORATORY is a brick building of special design, arranged especially for delicate instrument work.

THE DYNAMO LABORATORY is a modern brick structure, 37 by 80 feet. Besides containing the dynamo electric machinery for instructional use, it also contains the electrical engineering lecture room.

Chemical Buildings

THE CHEMICAL DEPARTMENT occupies two buildings. One is a two-story brick structure, 50 by 80 feet, covered with slate, and finished inside with Southern pine. Overlapping this at one corner, and connected with it, is a new and somewhat similar building, 53 by 86 feet, of modern style and handsome design. This double building constitutes a commodious structure adequate to all the needs of the department.

Textile Building

THE TEXTILE BUILDING is a two-story brick structure, with basement, of modern cotton mill design and construction. The first floor is occupied by a recitation room, picker, carding and spinning rooms, and an office. On the second floor are the designing and weaving rooms, a laboratory for experimental dyeing, and two offices. In the basement is located the dyeing, bleaching and printing machinery.

Residences and Hotel

THE CALHOUN MANSION, the former residence of John C. Calhoun, is kept in honor of his memory, in accordance with the provisions of Mr. Clemson's will.

RESIDENCES.—Ten two-story brick buildings, nine six-room cottages, and thirty smaller houses, all situated on the campus, furnish residences for professors and other officers of the College.

CLEMSON CLUB HOTEL.—The College Hotel, a frame building, situated on a hill overlooking the campus, is operated as a club by several members of the Faculty. In addition to furnishing a home for the members of the club, it is open the entire year to a limited number of transients.

Water, Light and Heat

THE GENERAL WATER SUPPLY is collected from springs through iron pipes into a reservoir, from which it is pumped into a standpipe one hundred feet high. From this it is distributed through mains to the various College buildings and to all parts of the campus.

THE DRINKING WATER SUPPLY is pumped from a bold spring directly into barracks, in a continuous stream. It is thus furnished fresh, pure and cold. This and all sources of water supply are kept under constant and strict surveillance, and the waters are frequently analyzed as a precaution against contamination.

THE SEWER SYSTEM.—All of the larger buildings and a number of residences are connected with an adequate sewer system, which empties into Seneca River more than half a mile from the campus.

LIGHT AND HEAT.—All of the College buildings and most of the residences on the campus are lighted by electricity furnished from the central power station in the Mechanical building. The seven principal College buildings are heated by steam.

Equipment and Practical Instruction

Agricultural Department

Agriculture

The class room, laboratory and office of the agricultural division are located on the first floor of Agricultural Hall, rooms 11, 12 and 13. The laboratory is supplied with the necessary equipment, for familiarizing students with the more important economic plant seed.

The College farm has a large storage barn provided with silos, a cow barn furnished with various forms of stanchions, a mule barn provided with the most improved forms of stalls and feed-racks, implement and wagon sheds for storage of tools, etc., compost building for making compost in large quantities, and two large cribs for storage of corn.

Among agricultural machinery and implements may be mentioned the following: Self-binder, corn-harvester, Deering ball-bearing mower, Osborne mower, self-dumping rake, check-row corn planter, Buckeye cultivator, B. F. Avery cultivator, Tower cultivator, disc-cultivator, spring-toothed harrow, smoothing harrows, various forms of pulverizers, manure-spreading machines, fertilizer and grain drill, various forms of small fertilizer drills, Planet Jr. drill, two Planet Jr. plows, scientific mill, stone grist mill, Tornado ensilage cutter, small thresher, hand-gin, rock-crusher, road machine, three terrace levels, and a 10-kw. electric motor.

Geology and Mineralogy

The division of geology and mineralogy occupies three rooms on the second floor of the new agricultural building.

The systematic collections contain about 1,800 labeled specimens of rocks, minerals and fossils. These are exhibited in glass cases in the laboratory, and are available to

students and public. A collection of the minerals and rocks of South Carolina is a prominent feature of the exhibit. There is also an unlabeled collection of minerals for practice in identifying the more important species at sight, and unlabeled collections of the most important minerals are provided for determinative work in the laboratory.

The laboratory is supplied with water and gas and all apparatus and reagents necessary for the determination of minerals by means of their chemical and physical properties. A chemical balance, a petrographic microscope, a photomicrographic camera, and all important accessories, are also provided.

The class-room is supplied with large physical wall maps of the world and of all the continents, a complete series of topographic contour-maps furnished by the United States Geological Survey, an 18-inch terrestrial globe, a 20-inch relief globe, a set of geological and geographical relief models, and several hundred lantern slides.

The geological department of the College library contains the principal standard works of reference in geology and mineralogy, and receives all publications of the United States Geological Survey as issued, including annual reports, monographs, geologic folios, and bulletins.

Soil Physics

The soil physics laboratory is located on the ground floor of Agricultural Hall and is provided with apparatus necessary for the determination of water content, absorptive capacity, water-holding power, and other physical properties of soils, and for performing experiments in evaporation, percolation, capillarity, etc., and making mechanical analyses.

Veterinary Science

The veterinary hospital has been described in the account of "Grounds and Buildings" on the preceding pages.

The class room, laboratory and office of the Veterinary division are located in Agricultural Hall, the laboratory and office on the first floor, rooms 15 and 16, and the class room on the ground floor. The laboratory is supplied with microscopes, microtome, incubators, sterilizers, chemicals, skeletons, anatomical specimens, plaster casts, and other equipment for technical work. The lecture room has a concrete floor, elevated seats, and is so arranged that the largest domestic animal may at any time be used before the classes for demonstration purposes.

The veterinary hospital is a frame structure of modern design, 48 by 65 feet, containing rooms for office, drugs and dissecting, besides stalls, feed-bins, water supply and electric lights, and a revolving operating table.

Zoology and Entomology

The laboratory, recitation room and office of this division are on the second floor of Agricultural Hall. The laboratory is equipped with simple and compound microscopes, microtomes, dissecting instruments, photographic outfit, stereopticon, lantern slides and charts. The entomological cabinet contains a large number of injurious and beneficial insects.

The students have access to a small but carefully selected entomological library.

Dairying and Animal Husbandry

The dairy building is provided with steam plant and water works, and everything required for making butter and cheese. In this laboratory are located the leading makes of cream separators, churns, and milk-testers.

The new experiment barn is provided with modern apparatus and conveniences for the proper handling of cattle, and the following breeds of cattle have been recently purchased and placed at this barn for experimental purposes:

Ayrshire, Devon, Jersey, Hereford, Polled Angus, Polled Durham; Short-horn (bare-faced dairy strains), Guernsey, Holstein; also six each of registered Shropshire and Southdown sheep.

Botany and Bacteriology

These laboratories are located on the third floor of Agricultural Hall, rooms 21, 22, and 23. They contain a good equipment for satisfactory work in botany and bacteriology, including twenty-five dissecting microscopes, twenty compound microscopes, student dissecting sets, student microtomes, Zimmermann microtome, embedding baths, balances, water still, incubator, Arnold and Koch sterilizers, autoclave, dry ovens, anaerobic apparatus, cameras for ordinary and photo-micrographic work.

The students have access to a small botanical library.

A creditable beginning has been made in collecting a herbarium. The herbarium has been installed in new insect proof cases on the Museum balcony. The general collection includes the Anderson herbarium of 2,500 mounted specimens, the herbarium of the Botanist, including about 700 mounted specimens of American violets, and 1,000 mounted specimens of flowering plants of Ceneral New York. A set of the F. V. Coville plants, of New York State, has also been added recently. The South Carolina herbarium contains over 1,200 mounted specimens, representing the South Carolina flora.

Mechanical and Electrical Department

Electrical Engineering

ELECTRICAL INSTRUMENT LABORATORY.—This is a separate brick building, designed especially for delicate electromagnetic work—no iron, steel or other magnetic substances having been used in its permanent construction. It contains, in addition to all necessary elementary apparatus, the

following instruments: Kelvin-Deka ampere balance, Kelvin four-coil astatic galvanometer, four D'Arsonval dead-beat galvanometers, large ring tangent galvanometer, three Elliott Brothers' standard resistance sets, Elliott Brothers' standard tangent galvanometer, Queen's standard ballistic galvanometer, Nalder Brothers' sensitive galvanometer, Rowland-D'Arsonval ballistic galvanometers, Willyoung standard condenser, Becker's chemical balance, Cahart-Clark standard cell, thermometers, Wheatstone bridges, storage and primary cells, etc.

DYNAMO LABORATORY.—To meet the demands of larger attendance and increased equipment, a new building has been provided in which is installed the dynamo-electric machinery. This building also contains a class room and a dark room for photometric work. It is a single story brick structure, 37x80 feet, with basement for supply rooms.

The main floor is divided into a class room 25x35 feet, and a dynamo laboratory room 53x35 feet. The building is heated by steam and lighted by inclosed arc and incandescent lamps.

The lecture room has elevated seats and is equipped with a complete line of illustration models, apparatus and electrical instruments. It contains an electro magnet capable of supporting the weight of two tons.

The Dynamo Laboratory contains, in addition to rheostats, speed counters, switches, and other small apparatus, the following machines and instruments:

50 H. P. high speed McEwen automatic engine.

Direct Current Generators—15 kilowatt Mather, 17 kilowatt Lundell, 2 1-2 kilowatt Crocker-Wheeler, two 2 kilowatt Kester.

Direct Current Motors—15 and 10 H. P. Kester, three 1-6 H. P. Crocker-Wheeler.

Direct Current Instruments—Weston laboratory standard voltmeter, set of Weston portables, Jewell ammeter and

voltmeter, Weston switchboard ammeter and voltmeter, Thompson recording wattmeter, etc.

Arc Lighting Apparatus—Brush and Thompson-Houston generators, Gen. Elec. Co. constant current transformer, Principal makes of open and inclosed arc lamps.

Alternating Current Apparatus—15 kilowatt G. E. Co. 2 and 3 and 6 phase revolving field generator complete with marble switchboard and full set of indicating instruments.

7 1-2 kilowatt G. E. Co. single 2 and 3 phase rotary converter; 7 kilowatt 3 phase converter built by students.

Genl. Elec. Co. 2 and 3 phase induction motors. Three, 3,000 watt constant potential transformers. Assortment of smaller transformers, motors and models.

Alternating Current Instruments—Two Weston and one Genl. Elec. wattmeters, Weston standard A. C. voltmeter, 6 Thompson inclined coil ammeters and voltmeters, Cardew and electrostatic voltmeters, Kelvin ampere balance, Siemens electro-dynometer, Stanley hot wire ammeter.

Miscellaneous—Two Schaeffer & Budenberg tachometers, leading types of lightning arresters, fuse testing apparatus.

The dark room contains a complete outfit for high potential, high frequency and X-ray work, and a Deshler-McAllister central station type photometer, with rotating stand for incandescent lamp testing.

COLLEGE POWER AND LIGHT PLANT.—The machinery in the dynamo laboratory is driven by the 50 horse power engine or two 20 horse power motors. Steam and electric power for these is furnished by the power plant situated in a neighboring building. This plant consists of an 85 horse power Corliss engine, driving a 40 kilowatt Westinghouse generator and a 30 kilowatt G. E. Co.'s multipolar generator. This station furnishes power to 20 motors, ranging from 3 to 30 horse power. These motors are used at different points on the College property for a variety of pur-

poses, such as pumping water, driving agricultural machinery, supplying power for machine shop, wood shop, textile department, etc. Several of these are at a considerable distance from the power station, thus furnishing examples of electrical transmission of power. In addition to power for driving motors, the same generators furnish electricity for lighting the barracks and other College buildings. Students have access to this plant, and are thus enabled to see the practical workings of a combined electric light and power plant, and to test its efficiency.

Mechanical Engineering

This laboratory occupies a room 41 by 45 feet, and contains the following equipment:

For Steam Engineering—15 horse-power horizontal, locomotive type boiler; 6 horse-power vertical boiler; Erie 6 horse-power plain slide-valve steam engine; 6 horse-power vertical steam engine built in the shops; Payne 15 horse-power high speed automatic engine; Corliss cross-compound condensing steam engine arranged so that either side may be run condensing or non-condensing and each side independent of the other; Wheeler surface condenser with combined air and circulating pumps; set of steam-gauge testing apparatus; Carpenter's separating steam calorimeter; two throttling steam calorimeters; six steam engine indicators of various makes; two standard injectors.

For Hydraulic Engineering—Two hydraulic rams; Pelton water motor; power triplex pump; three duplex pumps of different makes; three weirs; recording altitude gauge; 6 pressure and altitude gauges.

For Compressed Air—Clayton air compressor with jacketed cylinders; improved air motor.

For Fuel and Lubricants—Carpenter's fuel calorimeter, with scales, balances, and oxygen generating devices; standard viscosimeter.

For Testing Building Materials—100,000-pound Olsen automatic vertical testing machine driven by 5-horse power Westinghouse electric motor, and fitted for tension, compression, and transverse testing; Fairbank's cement testing machine; 3,000-pound transverse testing machine. The laboratory also contains a 5-horse power Otto gasoline engine, an Ericsson hot-air engine, a 6-horse power transmission dynamometer, graduated to read horse power direct and built by students, and an assortment of standard thermometers, weights and measures. The apparatus is so arranged that any of it may be used for separate or combined tests, or for any original investigations. Besides the equipment in this room, the electric light and power plant, the heating plant of the College and barracks, the isolated plants at the dairy, horticultural grounds and pumping station are available for instructional purposes.

Physics

The physical lecture room and laboratory is situated in the main College building, is 33 by 60 feet, and is well equipped with apparatus for both the lecture and experimental work of a general course in physics.

Drawing and Designing

The drawing rooms occupy the entire third floor of the Mechanical Engineering building. The third and fourth floors of the tower are also used as a dark room and blueprint room respectively. A good selection of drawings and models in these rooms are of great benefit to the student in his work. These rooms are equipped to accommodate from 20 to 36 students at a time, with cases, boards and T-squares for over 375. Members of all classes are required to furnish their own drawing instruments. All instruments used by students must be approved by the instructor in charge; an inferior grade of instruments will not be acceptable. Students are advised to buy their instruments at

the Cadet Exchange, where samples can be seen and wholesale prices obtained.

Forge and Foundry

FORGE SHOP.—This is a room 37 by 60 feet, situated in a wing of the Mechanical building. It is equipped with 18 Buffalo down draft forges and steel-faced anvils, with sets of hammers, tongs, swages, fullers, flatters, etc. Continuous blast is furnished by a Buffalo blower driven by a 15 H. P. electric motor, the down draft being produced by a 60-inch Buffalo exhaust fan. The shop is also supplied with vises, swage blocks, emery wheel, bending cone, drill-press, bolt shear, etc.

FOUNDRY.—This building occupies a space 43 by 76 feet and is free from posts or other obstructions. It is equipped with a 26-inch Victor Collian cupola, a Millett's core oven, a two-ton post crane, 8 improved molder's benches, an 18-inch brass furnace, with its usual complement of crucibles, tongs, etc., full set of molder's tools for the accommodation of 20 students, besides the usual accessories to the foundry, such as ladles, flasks, etc.

Machine Shop

The machine shop is located in the southwest wing of the Mechanical building, which wing is 45 by 100 feet, well lighted, heated and ventilated.

It contains seventeen benches, with vises, 105 kits of tools and the following machine tools: 1 18-in.x12-foot engine lathe; 1 18-in.x8-foot engine lathe; 3 14-in.x6-foot engine lathes; 4 14-in.x6-foot Lodge & Shipley lathes; 2 14-in.x 6-foot F. E. Reed compound rest engine lathes; 2 14-in.x 6-foot Hendey compound rest engine lathes; 1 10-in.x4-foot F. E. Reed pattern maker's lathe; 1 15-in.x8-foot speed lathe; 1 Cincinnati Universal Milling machine, No. 3, all power feeds; 1 Lodge and Davis' Universal Milling

machine; 1 18-in. drill press; 1 28-in. back geared drill press; 1 22-in.x6-foot Powell planer; 1 Cincinnati cutter and tool grinder; 1 15-in. Gould and Eberhardt crank shaper; 1 dry emery grinder; 1 12-in. power hack saw; 1 36-in. grind-stone; 1 22-in. Leland and Faulconer wet emery tool grinder; 1 American twist drill grinder; 1 10-in. slotting machine, built by New Haven Mfg. Co.; 1 fan; 1 forge. The tool room in connection with the shop contains all tools, etc., necessary for use with the machines.

The 7 H. P. motor which drives the machinery was built by students.

Woodwork

The wood shop occupies the two-story wing on the east side of the Mechanical Engineering building, 45 by 100 feet. The lower floor contains the freshman class room, equipped with fifteen work benches and sets of tools, six turning lathes, with tools for each, and other tools for hand work. On this floor is also the planing mill machinery, consisting of a double roll planer, power rip and cut-off saws, band saw, scroll saw, 16-inch jointer, moulding machine, mortising machine, tenoning machine, emery grinder, lathe with 12-foot bed, etc.

The upper floor is devoted principally to the work for the sophomore class, and is fitted up with fifteen work-benches and ninety sets of tools—one set for each student; six 10-in. turning lathes, large pattern lathe, combination saw and boring machine, double head shaper, panelling machine, carving machine, jig-saw, universal trimming machine, special door and sash clamps, steam glue pots, miter cutters, etc. The power is supplied by electric motors conveniently located in the various rooms. A large lumber yard and dry-kiln provide seasoned lumber at all times.

Chemical Department

The original Chemical Laboratory is a two-story brick building, 50 by 80 feet, covered with slate and finished inside with southern pine. Overlapping this at one corner, and connected with it by a glass-enclosed passage, is a new and somewhat similar building, 53 by 86 feet, of modern style and handsome design. This double building, which is well ventilated, heated by steam and lighted by electricity, constitutes a commodious structure adequate to all the needs of the department.

On the first floor of the old building, which is used for academic work, there are five rooms. Two of these, connecting with each other, are employed as a laboratory for the agricultural seniors. Of the other rooms on this floor, one is a laboratory for post-graduate students and one a balance room, while the third is reserved for such use as the ever-increasing demands upon the department may require.

On the second floor of this building, there are two large laboratories, one for the juniors in analytical chemistry, the other for the sophomores in general chemistry. A third and smaller room is used as a balance room.

The junior laboratory will accommodate seventy-two students, thirty-six at a time; the sophomore laboratory, one hundred and twenty students, sixty at a time. The laboratories are all provided with hoods for carrying off noxious gases, convenient working tables, water, gas, electric lights, and all necessary appliances for experimental work.

The basement of the building is used for assaying, for the preparation of distilled water and for storage. The air pump and the mixer of the gas machine for supplying the laboratories with gas are placed in this basement and connected with the generator, which is buried eighty-five feet from the building.

On the first floor of the new building there are nine rooms, all of which are appropriated to the chemical work of the State and of the Experiment Station. On one side of the wide hall, which extends the entire length of the building, are the rooms for the analysis of fertilizers. Three of these rooms are used respectively for the determination of phosphoric acid, nitrogen and potash; the fourth as a balance room; the fifth and last as a sample room. On the other side of the hall there are four rooms. The largest of these is used for the agricultural analysis of the Experiment Station. Adjoining this is a balance room, in which provision is made also for the optical and electrolytic apparatus. Of the remaining rooms, one is used for water analysis, the other as an office.

On the second floor of this building there are seven rooms; a lecture room, and six smaller rooms which are used for recitations, cabinets, apparatus, chemicals, library and professor's laboratory.

The lecture room will seat one hundred and seventy students, the seats being arranged in tiers.

The hoods in this building are all connected by earthenware pipes with a tightly-built room just under the roof, over which there is a large ventilator.

The rooms in the basement are used for assaying ores, for the preparation of agricultural products for analysis, and for storage. An electric motor located in one of these rooms supplies the power which drives the machinery for grinding and pulping samples of vegetable substances.

Department of Textile Industry

The building is a brick structure of modern cotton mill design, 168 by 75. It is of the slow burning type, built according to fire insurance regulations, after plans of an experienced mill engineer. The building, although designed for educational and experimental purposes, contain-

ing offices, lecture rooms and laboratories, retains the more prominent features of a typical southern cotton mill. This affords the students an opportunity of gaining many points of valuable information in connection with mill construction, along with the manipulation of cotton fibres and the study of cotton mill processes and operations.

The first floor is occupied by the picking, carding and spinning machinery, a lecture room, the main office, an exhibit room and the departmental library. The machinery on this floor is driven by two electric motors, one a 30 H. P. 220 volt direct current Westinghouse motor, driving the carding machinery, and a 20 H. P. 220 volt direct current General Electric Co. motor, driving the spinning machinery.

The second floor is occupied by the experimental dyeing laboratory, hand looms, power looms, a lecture room and two offices. The power machinery on this floor is driven by a 20 H. P. 220 volt direct current General Electric Co. motor.

The basement, which is situated under the right hand half of building, is occupied by the dye-house, and is nicely equipped for that purpose.

The building is equipped with a system of "Vortex" humidifiers from the American Moistening Co.; steam heating system and automatic fire sprinklers from The D. A. Tompkins Company; shafting, pulleys and hangers, from Jones and Laughlin, Ltd., and from T. B. Wood's Sons.

Carding Division

Pickers—One Atherton automatic feeder; one Atherton breaker; one Atherton finisher lapper, with evener motion.

Cards—One Saco & Pettee 40-in. revolving top flat card; one Mason 40-in. revolving top flat card; two traverse wheel grinders; two drum traverse grinders; stripping and burnishing rolls; two complete sets of carder's tools.

Combing—One Mason sliver lap machine; one Mason ribbon lap machine; one Mason six-head combing machine.

Railway Heads—One Saco & Pettee railway head, with evener motion, stop motions, and metallic rolls; one Mason railway head, with evener motion, stop motion, and metallic rolls.

Drawing—One Saco & Pettee drawing frame, 4 deliveries, stop motions, and metallic rolls; one Mason drawing frame, 4 deliveries, stop motions, and metallic rolls.

Fly Frames—One Saco & Pettee 12-in.x6-in. 40 spindle slubber, with latest differential motion; one Saco & Pettee 8-in.x4-in. 60 spindle intermediate roving frame, with latest differential motion; one Saco & Pettee 7-in.x3 1-2 in. 80 spindle fine roving frame, with latest differential motion; one Woonsocket 6-in.x2 1-2-in., 96 spindle jack roving frame, with Daly's improved differential motion.

Spinning Division

Ring Spinning—One Saco & Pettee combination warp and filling ring spinning frame, 128 spindles; one Mason combination warp and filling ring spinning frame, 112 spindles; two Fales & Jenks combination warp and filling ring spinning frames, 80 spindles each, designed for spinning fine counts; two Whitin combination warp and filling ring spinning frames, 80 spindles each.

Mule Spinning—One Mason self-acting spinning mule, 120 spindles, 1 3-4-in. gauge, with all latest improvements.

Spooling—One Draper spooler, 40 spindles; one Saco & Pettee spooler, 72 spindles; one Barber & Coleman knotter.

Twisting—One Draper combination wet and dry twister, 48 spindles; two Fales & Jenks wet twisters, combination filling and taper top wind, 70 spindles each.

Winding—One W. W. Altemus & Son bobbin winder; one Atwood-Morrison Co. bobbin winder; one Geo. W.

Payne & Co. skein winder; one Universal cone and tube winder.

Reeling—One D. A. Tompkins Co. adjustable reel, 50 spindles.

Warping—One Draper section warper; one Draper ball warper.

Beaming—One Entwistle beaming machine.

The divisions of carding and spinning are equipped with all necessary supplies, such as doff boxes, roving cans, bobbins, spool, cops, cones, tubes and change gears for all machines.

Weaving Division

Hand Looms—Seventeen hand looms, with 4x4 box motion, and 30 harness shedding engines, arranged for four beam work.

Power Looms—One 40-in. Northrop cam loom, with warp stop motion and automatic filling magazine; one 28-in. Northrop cam loom, with warp stop motion and automatic filling magazine, also fitted with Stafford 20 harness dobby; one Mason 36-in. gingham loom, with 4x1 box motion; one Mason 40-in. loom, with Stafford 20 harness dobby, also arranged for center selvage motion; one Mason 44-in. fancy cotton loom, with 24 harness dobby; one Stafford 30-in. fancy cotton loom, with 20 harness dobby and leno attachment; one Stafford 30-in. dress goods loom, with Stafford 400 hook, single lift, swing cylinder, jacquard; one Knowles 40-in. "Gem" loom, with 30 harness dobby, 4x4 box motion; one Crompton & Knowles 36-in. fancy cotton towel loom; one Crompton 65-in. loom, 4x1 drop box motion, fitted with 624 hook double lift, swing cylinder, jacquard, tied for weaving table damask; one Whitin 40-in. cam loom, arranged to weave up to 6 harness; one Whitin 40-in. fancy cotton loom, fitted with 20 harness dobby; one Whitin heavy pattern duck loom;

one Knowles 30-in. fancy cotton loom, 2x2 box motion, 16 harness dobby; one Kilburn & Lincoln 40-in. loom, arranged for dobby; one Kilburn & Lincoln 40-in. loom, arranged for dobby.

Dressing—one Davis & Furber dresser, complete.

Jacquard card cutting—One Jno. Royle, French index, foot power card cutter.

This division is also equipped with one floor stand, fitted with 8 harness dobby and leno attachment, built specially for illustrating leno weaves; one jacquard tying-up frame; warping pegs; beaming frames; drawing-in frames; extra heddles and heddle frames; reeds; change gears, etc.

Division of Textile Chemistry and Dyeing

The work in textile chemistry and dyeing is carried on in an experimental laboratory and a practical dye-house. These are equipped with the necessary apparatus and chemicals for instruction in organic chemistry, scouring, bleaching, dyeing, mercerizing, printing, etc.

The experimental laboratory is fitted with appropriate work-tables furnishing accommodations for sixty-four students working by detachments. Each table is supplied with the necessary arrangements for gas and water, and drawers and lockers in which may be stored apparatus and unfinished experiments.

Dye-house—Nine dye vats, four fitted with copper heating coils, one for peroxide bleaching; one Schaum & Uhlinger self-balancing hydro-extractor; one steaming and aging box; one mercerizing apparatus for yarn; one calico printing machine; one 20 gal. copper kettle; one set copper measures; one dry closet. There is also an equipment of reels, yarn testers, analytical balances, etc., and necessary instruments for experimental purposes.

Department Library

For the use of students and instructors, a reading room in the textile building has been fitted up and is furnished with some of the more important books of reference relating to the textile industry, and also with the leading periodicals relating to the subject. All journals and periodicals are contributed. There is also in this room an exhibit of the work done by the students in the different divisions of the department and an equipment of old hand machinery, illustrating the methods used before the introduction of power machinery. The room is open every week day throughout the session.

Civil Engineering

The collection of field instruments contains the following: Engineer's transits, with stadia and solar attachment; 3 twenty-inch wye levels, 4 railroad compasses, 2 six-inch vernier compasses; plane table with nine-inch telescope, vertical circle and stadia; drainage level, precision level, current meter with electric recorders, sextant, aneroid barometer, 4 twelve-foot self-reading leveling and stadia rods, twelve-foot New York leveling rods, twelve-foot Boston leveling rod, cross-section rod with clinometer, 6 surveyor's chains, 2 engineer's chains, 6 standard 100-foot steel tapes, 2 sixty-six foot steel tapes, fifty-foot steel tape, and a full supply of ranging poles, flag poles and other accessories.

The office equipment includes planimeter, slide rules, and drafting instruments and appliances. In addition to the drawing done under the immediate direction of the instructor in civil engineering, the regular work in drawing and designing, provided for students pursuing this course, is arranged with special view to their needs. The engineering laboratory and the shops and drawing rooms in which the civil engineering students receive an important part of their

instruction, are described under the equipment of the mechanical and electrical department.

Library*

In the main building is a series of rooms specially constructed for the use of the library. There are now upon the shelves 7,890 volumes, classified under the various heads of literature, history, biography, science, and reference books. In addition to these in the general library, there are 1,493 volumes in Experiment Station and department libraries of the College. There are also about 2,400 government publications, together with about 3,500 pamphlets. The library is supported by an annual appropriation, and the number of books is added to each year.

In connection with the library there is a reading room in which the students have access to nineteen of the leading weekly and monthly periodicals, twelve technical journals, the principal daily papers of the state and many of the county papers.

The Clemson Relics

A collection of thirty-seven oil paintings, collected by Mr. Clemson, chiefly in Holland, together with a number of additional portraits, may be seen in the Reception Room in the Main building.

The Calhoun Relics

Several pieces of furniture and other interesting relics, formerly the property of Mr. Calhoun, are carefully preserved in the Calhoun Mansion, where they may be seen by visitors to the College.

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*See donations to library, page 139.

DEPARTMENTS OF THE COLLEGE
DETAILED DESCRIPTIONS OF COURSES

Departments of the College

For administrative purposes, the College is divided into seven departments, each presided over by a director, who has general supervision of all the work and interests of his department. The departments comprise the various divisions indicated below, which are in the immediate charge of the professors, associate and assistant professors, and instructors of the respective departments.

Numbers in parentheses refer to description, beginning on page 89.

1. Agricultural Department

Agriculture (100-108).
Geology and Mineralogy (110-117).
Horticulture (120-122).
Veterinary Science (130-139).
Zoology and Entomology (140-142).
Dairying and Animal Husbandry (150-162).
Botany and Bacteriology (170-174).

2. Mechanical and Electrical Department

Electrical Engineering (200-203).
Mechanical Engineering (210-215).
Physics (220-222).
Drawing and Designing (230-239A).
Forge and Foundry (240-242).
Machine Shop (250-251).
Woodwork (260-262).

3. Chemical Department

Chemistry (300-306).
Metallurgy (310-311).

4. Textile Department

Carding and Spinning (400-409).
Weaving and Designing (410-414).
Textile Chemistry and Dyeing (420-421).

5. Academic Department

English (500-504).
History and Political Economy (510-515).
Mathematics and Civil Engineering (520-537).
German (540-541).

6. Military Department

Military Science and Tactics (600-602).

7. Preparatory Department

Detailed Descriptions of Courses

Agricultural Department

Professor Harper, Director.

General Agriculture

Professor Harper.
Associate Professor C. L. Newman.

100. Foundations of Agriculture

Freshman Class; All Courses.

A broad elementary introduction to the study of agriculture, embracing treatment of soils, seeds and plants.

101. Field Crops

Sophomore Class; Courses I., II.

The history, classification, characteristics, adaptation, culture, harvesting, marketing and uses of field crops. Terracing.

102. Farm Practice

Sophomore Class; Courses I., II.

The student is taken to the field and performs the work appropriate to different crops, thus becoming familiar with requirements of the various field crops.

103. Farm Practice

Junior Class; Courses I., II.

A continuation of the work begun in Sophomore year and embracing harvesting, seed selection, storing and marketing. Use of tools and farm machinery.

104. Soil Physics

Junior Class; Course I.

The work in soil physics enables the student to understand the effects of the different methods of treatment of soils, and the influence of these methods upon moisture, texture, aeration, fertility and production. The course is supplemented by laboratory determinations of specific gravity, relative specific gravity, water-holding capacity, capillary power, and rate of percolation of various soils; experiments upon rates of evaporation from the surface, and the

effects of different mulches and methods of cultivation upon retention of soil moisture; mechanical analysis of soils.

105. Agricultural Research and Literature

SENIOR CLASS; COURSE I.

The senior class will study the results of experiment work, conduct experiments, interpret results, and prepare them in bulletin form. Research in agricultural reports and kindred literature will be required upon assigned subjects, the results to be reported in writing.

106. Advance Agronomy and Plant Breeding

SENIOR CLASS; COURSE I.

A critical study of the methods of crop production and the principles and practices of plant breeding and improvement.

107. Agricultural Physics

SENIOR CLASS; COURSE I.

The equipment of the soil laboratory is such that students can successfully conduct experiments along the lines relating to soil management and soil fertility. This is a continuation of the work begun in the junior class. Lectures are delivered on farm drainage; effect of cultivation on the texture of soils, etc.

108. Rural Economy and Farm Management

SENIOR CLASS; COURSE I.

Lectures and recitations upon the employment and management of farm labor, farm equipment and farm management. The lectures include the interrelations of economics and agriculture. Lectures upon the cost and relative profit of various farm operations and systems.

Geology and Mineralogy

Professor Calhoun.

110. Elementary Mineralogy

JUNIOR CLASS; COURSE V.

Laboratory study of crystal forms by the use of models and natural crystals; chemical and physical properties of minerals; practice in the determination of unknown specimens. This is a brief course, intended to give the student an adequate conception of the science of mineralogy together with some practical acquaintance with the more common and important minerals.

111. Mineralogy

JUNIOR CLASS; COURSES IA., III.

A comprehensive course in crystallography, physical and chemical mineralogy, and systematic descriptive and determinative mineralogy. Crystallography is taught by lectures and text-book, with laboratory

work on the collections of models and natural crystals; also physical, optical, and chemical properties of minerals, and descriptive mineralogy, covering the more important mineral species. Much of the laboratory work is devoted to the determination of minerals by means of their physical and chemical properties, by comparison with labeled specimens of the systematic collection, and by the use of unlabeled collections for practice in identifying minerals at sight. This course gives a sufficient knowledge of mineralogy for the geologist, metallurgist, mining engineer, or chemist, and will enable the student to readily identify all but the rarer minerals.

112. Elementary Geology

SENIOR CLASS; COURSES I., IA., II., IV., V.

The elements of dynamical, structural and historical geology. The influences of geologic phenomena on man are emphasized, particularly in the study of rock-decomposition and the formation of soils, the processes of erosion and deposition, and the resultant topographic forms.

113. General Geology

JUNIOR CLASS; COURSE III.

A broad course in the elements of general geology. Special stress is laid on structural and dynamical geology in their relations to the formation of rocks and rock-structures, the metamorphism of rocks, and the deposition of minerals and ores. In historical geology special attention is given to the development of the North American continent.

114. Petrography

SENIOR CLASS; COURSE III.

A study of the structure, composition, origin, and classification of various families of rocks, their distribution, modes of occurrence, and geological importance; microscopic characters of rock-forming minerals, and the use of the petrographic microscope. The course is supplemented by work in the field and laboratory, and the student becomes familiar with rocks and with practical methods of investigation, and their applications to the problems of lithological geology.

115. Economic Geology

SENIOR CLASS; COURSE III.

A general survey of geological products of value, including metallic and non-metallic minerals, and building stones; their origin and nature, distribution, modes of occurrence, and methods of exploitation. The course deals particularly with the economic deposits of North America, with briefer reference to those of other countries for purposes of comparison and for the elucidation of problems of origin, exploitation, etc. The student is required to read and prepare abstracts of the more important monographs and reports.

116. Practical Geology

SENIOR CLASS; COURSE III.

Field study and reports of geological processes and phenomena, rocks and rock structures, both original and secondary, accompanied by laboratory exercises by means of specimens, models, photographs, maps and sections; interpretation and representation of geologic phenomena, and training in the principles and methods of geological surveying, the construction of geological maps and sections, and the preparation of reports.

For description of equipment, see page 66.

117. Mineralogy

SENIOR CLASS; COURSE I.

A general course on the soil-making minerals and rocks. The origin of soils will also be studied.

Horticulture

Associate Professor C. C. Newman.

Instruction is given in the sophomore, junior and senior classes. The theoretical work is illustrated by practical exercises in the garden, orchard, vineyard, greenhouse, and ornamental grounds of the College. These practical exercises enable the student to become familiar with all the details of the work.

120. Propagation and Management of Nursery Stock

SOPHOMORE CLASS; COURSE I. JUNIOR CLASS; COURSE II.

Lectures are given on the following subjects and special attention is paid to the practical work along these lines. Stratification of seeds; sowing seeds; seed testing; separation and division; budding and grafting; grading and storing nursery stock; nursery management.

Text-book: The Nursery Book, by L. H. Bailey.

121. Vegetable Gardening

JUNIOR CLASS; COURSES I., II.

Construction of hot-beds and cold-frames, their use and management; preparation of the soil; fertilizing; seed sowing; transplanting and cultivation; gathering; storing and marketing; spraying and spraying equipment.

Text-book: Principles of Vegetable Gardening, by L. H. Bailey.

122. Ornamental Horticulture and Floriculture

SENIOR CLASS; COURSE I.

The work includes ornamental horticulture and floriculture; the propagation and care of ornamental plants; general greenhouse work and management.

For descriptions of buildings, grounds, and equipment, see pages 62 and 63.

Veterinary Science

Associate Professor Klein.
Assistant Powers.

130. Anatomy and Histology

SOPHOMORE CLASS; COURSE II.

A laboratory course in gross and microscopic anatomy, arranged as an introduction to the study of the principles of stock judging and physiology.

131. Anatomy and Physiology

SOPHOMORE CLASS; COURSE I.

A short course arranged for Course I. students as an introduction to their work in judging, feeding and care of live stock.

132. Veterinary Physiology

JUNIOR CLASS; COURSE II.

While this course embraces the study of all the animal functions, especial attention is given to digestion, nutrition, reproduction, milk secretion, and locomotion, these being of greatest importance in the animal industries.

Text-book: A Manual of Veterinary Physiology, by F. Smith.

133. Physiological Demonstrations and Microscopy

JUNIOR CLASS; COURSE II.

A laboratory course in physiology.

134. Surgical Therapeutics

JUNIOR CLASS; COURSE II.

In this course hemorrhages, inflammation, wounds, sprains, bruises and other accidental conditions are considered, together with the use of antiseptics, and the treatment of diseases of the hoofs.

135. Sporadic Animal Diseases

SENIOR CLASS; COURSE II.

A brief course in the non-contagious diseases of farm animals, especial attention being given to cause and prevention.

136. Contagious Animal Diseases

SENIOR CLASS; COURSE II.

In this course the relation of diseases of animals to the health of man is considered, and the bacteriology, modes of transmission, symptoms, cause, prevention and treatment of the diseases common to man and animals are studied.

137. Hygiene and Sanitary Science

SENIOR CLASS; COURSE II.

Text-book: A Manual of Veterinary Hygiene, by F. Smith.

138. Veterinary Clinics

SENIOR CLASS; COURSE II.

A free clinic is held at the veterinary hospital every Monday afternoon of the session, except on holidays and during examinations. These clinics are liberally patronized by the stockmen of the surrounding country, and the material thus secured affords practical work in surgery and the treatment of diseases. Many patients are kept in the hospital for treatment.

For descriptions of buildings and equipment, see page 67.

Zoology and Entomology

Associate Professor Chambliss.

The instruction in this division is largely conducted by the laboratory method with lectures and recitations, and is so given as to lead the student to observe and think for himself, as well as to secure a working knowledge of the science for practical purposes.

140. Physiology

SOPHOMORE CLASS; COURSES I., II.

An elementary course in which the physiology of digestion, circulation and excretion will receive special attention. The instruction will serve as a basis for hygiene and as an aid to those who may teach in public schools.

141. General Invertebrate Zoology

JUNIOR CLASS; COURSES I., II.

This course includes a general discussion of groups, and dissection of types, especially of the forms related to insects, and is further extended to lay a foundation for a knowledge of animal development. Animals of economic importance are given special attention.

Books of Reference: Invertebrate Morphology, by McMurrich; The Riverside Natural History; Text-book of Zoology, by Parker and Howell.

142. Economic Entomology

SENIOR CLASS; COURSES I., II.

By laboratory studies and field work, the students in this course will be made familiar with the most important injurious insects. For the systematic and biological work, a collection of one hundred species, with full notes on the habits of twenty-five, will be required. The practical work will consist of the preparation and application of insecticides.

Text-books: Manual for the Study of Insects, by Comstock; Elements of Insect Anatomy, by Comstock and Kellogg.

Books of Reference: Insects Injurious to Fruits, by Saunders; Economic Entomology, by Smith; Guide to Study of Insects, and a Text-book of Entomology, by Packard; U. S. Government Exepriment Station and State publications on Entomology.

For description of equipment, see page 68.

Animal Husbandry and Dairying

Associate Professor John Michels.
Instructor Burgess.

150. Types of Cattle, Horses and Mules

FRESHMAN CLASS; COURSES I., II.

Market and breed types of dairy and beef cattle; their origin and history. Types and breeds of horses and mules.

152. Types of Sheep and Hogs

SOPHOMORE CLASS; COURSE II.

Breed and market types of sheep and hogs; their origin and history.

153. Principles of Breeding

SOPHOMORE CLASS; COURSE II.

Principles of breeding, including selection; heredity; atavism; variation; fecundity; methods of breeding; in-an-in breeding; line-breeding, etc.

154. Stock Judging

SOPHOMORE CLASS; COURSE II.

Judging dairy and beef cattle, sheep, hogs, horses, and mules, and score card practice.

155. Care and Management of Dairy Cattle

JUNIOR CLASS; COURSE II.

Care and management, housing and feeding dairy cattle.

156. Stock Feeding (short course)

SENIOR CLASS; COURSE I.

Stock feeding, including the consideration of the comparative food value and cost of all southern feeding stuffs; economic methods of feeding to produce milk, beef, etc.; and method of feeding work animals.

157, 158. Stock Feeding

SENIOR CLASS; COURSE II.

Stock feeding, including composition and digestibility of feeding stuffs; their preparation, use and cost; nutritive ratios; digestion, etc. The available feed stuffs of the south are discussed at length.

159. Group Judging

SENIOR CLASS; COURSE II.

Judging groups of animals similar to county and state fair work.

160. Pedigree Work and Coumpounding Rations

SENIOR CLASS; COURSE II.

161. Milk and Its Products

JUNIOR CLASS; COURSES I., II.

It is the object of this course to give the student thorough knowledge of the sanitary conditions necessary to produce and handle milk; pateurization; milk testing; dairy machinery; manufacture of butter, cheese and ice cream, and marketing.

162. Practical Work in Creamery

JUNIOR CLASS; COURSES I., II.

Cream separation and ripening; pasteurization of milk and cream; bottling milk; butter and cheese making; milk testing; butter and cheese scoring.

For descriptions of buildings and equipment, see page 68.

Botany and Bacteriology

Associate Professor House.

171. General Botany

SOPHOMORE CLASS; COURSE I., TWO TERMS; COURSE II., ONE TERM.
JUNIOR CLASS; COURSE I.

A preliminary course is given under No. 100. In this course the flowering plants are first studied and special attention is given to plant physiology and morphology. Types for study are selected with the view of bringing before the class plants that represent not only important groups, but which are also of considerable economic importance, as the cotton plant, the cowpea plant, etc. The course is general in scope, and the object is to acquaint the student with the general facts of plant life.

In the junior year this course is continued with particular reference to more advanced morphology and taxonomy of the Angiosperms.

172. Elements of Forestry

SENIOR CLASS; COURSE I.

The general principles underlying the practice of forestry are briefly studied and particular attention is given to field work. The taxonomy of the native trees receives considerable attention.

173. General Bacteriology

SENIOR CLASS; COURSES I., II.

The nature and distribution of bacteria, the facts underlying the phenomena of decay and disease, the hygiene of contagious diseases, the elaborate technique of practical work in the science, form the subject matter of the course.

SENIOR CLASS; COURSE IA.

The scope of the work for students in this course is much broader and includes a general training in the use of the microscope and microscopic technique. Particular attention is given to methods in the bacteriological analysis of waters and soils.

174. Plant Pathology

SENIOR CLASS; COURSE I.

The course is devoted to the study of the diseases of economic plants. The class first studies pear blight as a typical disease, producing the disease by inoculation and watching its progress and effects. Other diseases induced by plant parasites are then studied from the systematic standpoint of the parasite. The students are taught to recognize the more common diseases, particularly in the early stages; and the whole question of prevention and practicable remedies is fully discussed.

Mechanical and Electrical Department

Professor Riggs, Director.

Electrical Engineering

Professor Riggs.
Assistant Professor Dargan.

200. Electricity and Magnetism

Junior Class; Course IV.

Study of the principles of electricity and magnetism, and the elementary design of electro-magnetic mechanism. Wiring calculations, incandescent lighting, etc.

Text-books: Elementary Lessons in Electricity and Magnetism, by Thompson; Elementary Electricty and Magnetism, by Jackson.

201. Electrical Laboratory Practice

Junior Class; Course IV.

Experimental verification of fundamental electrical laws; measurement of currents, electromotive force, resistence, permeability, capacity, etc.

Reference books: Ayrton's Practical Electricity; Nichol's Physics, Vol. I.; Stewart and Gee's Practical Physics; Henderson's Practical Electricity and Magnetism, Vols. I. and II.

202. Dynamo Electric Machinery

Senior Class; Course IV.

First half session: study and design of direct current dynamo-electric machinery. Second half session: study of alternating currents and their application to light and power. Special attention is directed to polyphase systems and apparatus.

Text-book: Franklin and Esty's Elements of Electrical Engineering; Franklin's Alternating Currents and Alternating Current Machinery.

Note.—A complete dynamo design, with full set of drawings, is required as part of course 202 in Electrical Engineering, and course 238 in Mechanical Drawing.

203. Electrical Laboratory

Senior Class; Course IV.

Care, management and testing of arc and incandescent generators, direct current motors, etc. During third term management and test of single and polyphase machinery and apparatus.

Text-book: Electrical Laboratory Notes, by Riggs.

For descriptions of buildings and equipment, see pages 69 and 70.

Mechanical Engineering

Associate Professor Earle.
Assistant Professor Howard.

In this course the student is taught the application of his scientific, mathematical and technical knowledge to the design and construction of engineering structures, and of machinery and manufacturing plants in general.

210. Mechanism

JUNIOR CLASS; COURSES III., IV., V., VI.

Spur, bevel, and screw gearing, belt gearing; lobed and elliptic wheels; epicyclic trains; escapements; rachet motions; link motions; quick return motions; cam motions.

Text-book: Stahl and Wood's Mechanism.

211. Mechanics

JUNIOR CLASS; COURSES III., IV., V., VI.

Motion, force, velocity, force systems, moments of force, general principles, and methods of solving problems both analytically and graphically.

212. Mechanics

SENIOR CLASS; COURSES IV., V.

Two hours per week during the first two terms are given to the study of pure mechanics, centre of gravity, moments of inertia, work, energy, power, elasticity, resiliance, strength of engineering materials, and hydaulics.

Text-book: Maurer's Technical Mechanics.

213. Mechanical Engineering

SENIOR CLASS; COURSES III., IV., V., VI.

Study of the design and construction of steam boilers, heaters, pumps and injectors; theory and design of simple, compound and triple expansion steam engines; gas and gasoline engines; hot air engines; air compressors and motors; ice and refrigerating machinery; heating and ventilating systems; transmission of power; engineering specifications and the law of contracts. Theory of the strength of engineering materials. Graphical solution of problems. Hydraulics.

Text-book: Ewing's Steam Engine and other Heat Engines.

214. Mechanical Laboratory

SENIOR CLASS; COURSES IV., V.

Study, use and calibration of water-meters, weirs, steam gages, indicators, dynamometers, calorimeters; efficiency tests of screw-jacks and hoists; tests of fuel and lubricants; tests of building materials, as iron, wood, brick, cement, etc.; erecting, lining up and setting the

valves of the plain slide-valve and automatic cut-off steam engines; indicator practice; horse-power and efficiency of steam, gasoline and hot-air engines and air-compressors and motors; efficiency trials of steam boilers; duty trial of steam pump and of College pumping engines.

Reference books: Carpenter's Experimental Engineering; Smart's Engineering Laboratory Practice; Thurston's Steam Engine.

215. Mechanical Laboratory

SENIOR CLASS; COURSES III., VI.

Study, use, and calibration of steam gages; indicators; calorimeters; tests of building materials, as iron, wood, brick, cement; erecting, lining up and setting the valves of plain slide-valve and automatic cut-off engines. Practice in running and testing water motors; steam engines; gasoline engines; pumps; firing and testing of steam boilers.

Reference books: Carpenter's Experimental Engineering; Smart's Engineering Laboratory Practice; Thurston's Steam Engine.

For description of equipment, see page 72.

Physics

Associate Professor Poats.

The study of physics is begun in the sophomore year by all regular students, and completed in that year by those students taking courses in agriculture and textile industry. All other regular students take physics, both theoretical and practical, in the junior year.

The instruction is by lectures and recitations, special stress being laid upon principles and facts which are fundamental to the several engineering professions. The lectures and recitations are illustrated by numerous experiments before the class.

In the physical laboratory the student is taught to perform for himself all the experiments of a general laboratory course. The properties of matter, the laws of mechanics, heat, electricity, magnetism, light and sound are verified. Students are required to make accurate and neatly written reports of all experiments.

220. Elementary Physics

SOPHOMORE CLASS; ALL COURSES.

Properties of matter; physical measurements; mechanics of solids and fluids; electricity and magnetism.

Text-book: Carhart and Chute's Physics.

221. Electricity and Magnetism, Heat, Sound and Light

JUNIOR CLASS; COURSES III., IV., V.

Text-books: Carhart and Chute's Physics; Carhart's University Physics.

222. Physical Laboratory

JUNIOR CLASS; COURSES III., IV., V.

Experimental determination of the physical properties of matter and the verification of laws of mechanes; heat; sound; light; electricity and magnetism.

For description of equipment, see page 73.

Drawing and Designing

Associate Professor Lee.
Assistant Professor Klugh.
Instructor Bogard.
Instructor Gardner.

Throughout the course the best methods of work pursued in the drafting rooms of workshops and manufacturing establishments are given.

230. Freehand Drawing

FRESHMAN CLASS; COURSES III., IV., V., VI.

Graded exercises in sketching from geometrical models, plaster casts, machine parts, and other objects in pencil and ink, particular attention being paid to outlines and perspective.

232. Mechanical Drawing

FRESHMAN CLASS; COURSES III., IV., V., VI.

Exercises in the use of drawing instruments; lettering; geometrical problems; projections; conventional section and shade lines; working drawings of simple parts of machines, from sketches and models.

233. Mechanical Drawing

FRESHMAN CLASS; COURSES I., II.

Exercises in the use of drawing instruments; lettering; geometrical problems; projections; plans and elevations of farm buildings.

234. Mechanical Drawing

SOPHOMORE CLASS; COURSES III., IV., VI.

Orthographic projection; intersection and development of surfaces; isometric drawing; perspective; shades and shadows; working drawings of machines or parts of machines from sketches and specifications. Elementary principles of machine design; construction of screw threads; proportioning of bolts and nuts.

234a. Mechanical Drawing

SOPHOMORE CLASS; COURSE V.

Orthographic projection; intersection and development of surfaces; isometric drawing; perspective; shades and shadows; working drawings of machines or parts of machines from sketches and specifications; lettering; topographical drawing.

235. Mechanical Drawing

JUNIOR CLASS; COURSE IV.

Practical problems in mechanism. Lobed and elliptic wheels; spur and bevel bearing; cams; link motion; quick return motion; belt gearing; coupling; riveting, etc.; tinting, tracing and blue printing.

236. Mechanical Drawing

JUNIOR CLASS; COURSE V.

First half the same as course 235; platting; topographical drawing; tinting; railroad and map drawing; plans and details of buildings.

237. Mechanical Drawing

JUNIOR CLASS; COURSE III.

First half same as course 235. Second half, drawing of furnace designs and other metallurgical appliances.

238. Machine Design

SENIOR CLASS; COURSE IV.

Necessary drawings for work under construction in the shops; details of steam engine and electrical machinery. Design drawing required in graduation thesis.

239. Mechanical Drawing

SENIOR CLASS; COURSE V.

Railroad and map drawing; plans and details of bridges and buildings. Design drawing required in graduation thesis.

239a. Mechanical Drawing

SENIOR CLASS; COURSE VI.

Cam drawing; jacquard tie-ups, etc. This work is done in the Textile School.

For description of equipment, see page 73.

Forge and Foundry

Assistant Professor Gantt.

Assistant Gardner.

240. Forge Work

FRESHMAN CLASS; ALL COURSES.

Study of Buffalo down draft forges; graduated exercises, embracing fundamental operations of forging, such as upsetting, bending, punching, twisting, welding, etc. Part of third term is devoted to working with tool steel, involving processes of annealing, hardening, tempering, etc.

241. Foundry Work

SOPHOMORE CLASS; COURSES III., IV., V., VI.

Names and uses of molders tools; tempering and working of molding sand; making and patching of molds. Work with patterns of various shapes and sizes, illustrating the principles of venting, gating, coring, etc. Grading and mixing of iron; charging and operating cupola. Several weeks are devoted to work in brass molding. The practical instruction is supplemented by a course of lectures covering the various phases of foundry work.

242. Forge Work

Study of Buffalo down draft forges. Short course, embracing fundamental operation of forging.

For description of equipment, see page 74.

Machine Shop

Assistant Professor Howard.

250. Machine Shop

JUNIOR CLASS; COURSES IV., V., VI.

Instruction begins at the bench with exercises in chipping, filing, scraping and polishing. Castings and drawings are given the student, and he is required to chip, file, scrape and polish each casting into the exact form and size represented by the corresponding drawing. From bench work the student is advanced to machine work, where he is taught turning, boring, polishing, drilling, threading, planing, milling, grinding, etc., in iron, brass and steel. In all cases the exercises are required to be worked to drawings. The graded course of exercises is designed to teach the fundamental principles and practices of machine metal-work from the simplest to the most difficult operations.

Only a few set exercises are given to teach important fundamental processes. It is the policy of the shop to keep several large machines in process of construction, requiring the students to do the work. Experience has taught that students take greater interest in making parts of a machine that is for actual use than in mere routine exercise work.

251. Machine Shop

SENIOR CLASS; COURSE IV.

The senior year is devoted to a more advanced work in the construction of engines, dynamos, motors and other machines. The student is encouraged to work from his own designs as far as possible, but is guided and directed by the instructor in charge.

For description of equipment, see page 74.

Woodwork

Assistant Professor Hook.
Assistant Gardner.

The course in woodwork does not aim to make the student a skilled workman, but rather to teach the proper use of tools and impress the importance of working to exact dimensions. At the same time, it gives a certain amount of manual dexterity, useful in every vocation.

The course covers two years, beginning with the most elementary principles and advancing gradually by a series of graded exercises to the more complicated instructions where special methods and tools are required. All work is done from working drawings, and commercial shop methods are constantly employed.

260. Woodwork

FRESHMAN CLASS; COURSES III., IV., V., VI.

Use and care of tools; graded exercises in carpentery, joining, wood-turning; construction of articles from working drawings; use of turning lathe and other simple machinery; construction of boxes, desks, etc., involving dove-tailing, gluing, polishing, etc.

261. Woodwork

FRESHMAN CLASS; COURSES I., II.

The work is given for two terms only, and is the same as course 260, except that a study of farm structures, such as fences, gates, houses, etc., is substituted for a part of the work given in course 260.

262. Woodwork—Pattern Making

SOPHOMORE CLASS; COURSES III., IV., V., VI.

Use of wood-working machinery, as planer, jointer, moulder, mortise and tenoning machine, carving and paneling machine, shaper, circular and jig-saws. Pattern work, with graded exercises, illustrating the principles of draft and shrinkage, and teaching the construction of core prints, core boxes, etc. Patterns for machines under construction. Cabinet work, and furniture construction, as chairs, desks, book-cases, hall stands, etc.

For description of equipment, see page 75.

Chemical Department

Professor Hardin, Director.

Chemistry and Metallurgy

Professor Hardin.
Associate Professor Brackett.
Assistant Professor Shiver.
Assistant Professor Henry.

300. General Chemistry

Sophomore Class; All Courses.

In organic chemistry and the leading facts and principles of organic chemistry. Ist term, non-metals; 2d term, metals; 3d terms, organic chemistry.

Text-book: Roscoe's Elementary Chemistry.

301. Chemical Laboratory

Sophomore Class; All Courses.

Introductory work and qualitative analysis.

Text-book: Jones' Junior Course in Practical Chemistry.

302. Industrial Chemistry

Junior Class; Courses I., II., III.

The applications of chemistry in the more important arts and manufactures. Among the subjects studied are: Sulphuric acid; soda; chlorine; potash salts; fertilizers; lime, mortar, and cements; glass; porcelain; illuminating gas; coal tar; mineral oils; vegetable and animal oils; soap; fermentation industries, etc.

Text-book: Thorp's Outlines of Industrial Chemistry.

303. Chemical Laboratory

Junior Class; Courses I., II., III., VI.

Qualitative and quantitative analysis. A short course in assaying is given in the agricultural courses, and a fuller course in assaying in the metallurgical course.

Books used: Jones' Junior Course in Practical Chemistry; Fresenius' Qualitative and Quantitative Analysis; Notes on Assaying.

304. Agricultural Chemistry

Senior Class; Courses I., II.

The composition of plants, the sources of plant food, the composition of soils, the improvement of soils by chemical means, the com-

position and manufacture of fertilizers, the composition of feeding-stuffs and of dairy products.

Text-books: Johnston's Elements of Agricultural Chemistry, edited by Cameron and Aikman.

305. Chemical Laboratory

SENIOR CLASS; COURSES I., II.

Quantitative analysis of fertilizers, soils, ashes of plants, water, cattle-foods and dairy products.

Books used: Bulletins of U. S. Department of Agriculture, containing methods of analysis adopted by the Association of Official Agricultural Chemists.

306. Physical Chemistry; History of Chemistry

SENIOR CLASS; COURSE III.

Text-books: VanDeventer's Physical Chemistry; Venable's History of Chemistry.

310. Metallurgy

SENIOR CLASS; COURSE III.

Text-book: Sexton's Elementary Text-book of Metallurgy.

311. Chemical and Metallurgical Laboratory

SENIOR CLASS; COURSE III.

For descriptions of buildings and equipment, see pages 67 and 76.

Department of Textile Industry

Professor Doggett, Director.

Details of Instruction

In carding and spinning, after the subject of raw material has been completed, machinery and processes used in the production of cotton yarns will be taken up systematically, going into a detailed examination and explanation of the separate machines and the mechanisms peculiar to them. Calculations for making changes of gears, speeds, production, etc., and practical operation of each machine will be required.

In designing, instruction begins with explanations of the principles of representing weaves on design paper, after which the designing of plain simple weaves, laying out of harness drafts, pegging plans, etc., are taken up, advancing into the designing of more complicated weaves usually made on harness. After the completion of harness weaves the time will be devoted to designing of Jacquard weaves and tying up of Jacquards. The aim of the instruction in designing will be to develop originality in the student.

The practical work in weaving is laid out to parallel the instruction in designing. The first part of the instruction in this work will be on hand looms. After the completion of that amount of work required on hand looms, the student is advanced to plain and fancy

power looms, where in addition to the practical operation of weaving, the loom will be analyzed and explained in detail, together with timing and setting all working parts. The latter part of this work will be on Jacquards.

Cloth analysis consists in dissecting samples of various kinds of cloth to ascertain the weave, texture, weight per yard, and the counts of yarn used in its construction. The students are required to reproduce some of these patterns on the looms of the school.

The work in textile chemistry and dyeing covers inorganic quantitative analysis; the general principles of organic chemistry, with special reference to the coloring matters; the preparation of mordants and dyes, and the application of them to the several textile fibres.

Mill construction, ventilation and fire protection will be discussed. Also the organization and relations of the various departments of an industrial establishment, the determination of costs of production and of the effect on costs of different systems of distributing indirect expenses. As occasion offers, addresses will be given by men of prominence who are interested in the cotton industry or in the manufacture of mill machinery.

Care is taken to develop accuracy in observation, neatness and clearness in written reports; and to this end each student is required to submit a comprehensive report—including the necessary notes and references from standard works on the subjects—of every experiment performed by him. By this method each student is able to verify for himself in the laboratory, the truth of the principle stated to him in the class room.

Each student will be required to submit an organization and a list of the machinery equipment, for several different sizes of mills, making different classes of products.

In all the divisions of this department, the lecture work, so far as is necessary, will be illustrated with drawings and lantern slides.

Carding and Spinning

Assistant Professor Earle.

400. Raw Material

JUNIOR CLASS; COURSE VI.

That the manipulation of cotton fibres may be carried out successfully, under various conditions, it is essential that the characteristics peculiar to the cotton fibre should be understood. Therefore, the introductory work of the students of this department is to examine the physical properties of cotton fibres, to ascertain their lengths of staple, spinning qualities, color, harshness and softness, and to determine their suitability for making various kinds of yarns, filling, warp, ply yarns, etc. This study of fibres will not be limited to American cottons, but will include the more important commercial cottons of the world. The effects of temperature and humidity on fibres will be fully discussed. Also the handling of cotton prior to manufacturing processes, together with the injury to cotton fibres therefrom.

401. Opening and Mixing

JUNIOR CLASS; COURSE VI.

Beneficial effects of opening and airing cotton; length of time to air for best results; effects on resultant yarn if not properly opened; necessity of mixing; when to mix cottons and methods of carrying out same; effects of improper mixing; effects of a judicial mixing on the after processes of manufacture; reasons for blending; effects of blending cottons on the resultant yarn, for strength, appearance, cost, etc.; effects on finished products if cottons are not properly mixed or blended.

402. Picker Room

JUNIOR CLASS; COURSE VI.

Proper situation of picker room; arrangement of machinery in same; automatic feeder; purpose for which used; construction, adjustment of parts, etc.; action on cotton; manner of connecting them to breaker lappers with and without dust trunks; advantages of dust trunk; facilitating good results by proper care; breaker lapper, use, explanation of parts, beaters used, adjustment of working parts and experimenting with different speeds of beater; intermediate and finisher lappers, necessity of using same, construction, speeds, care of beaters, kinds of beaters, speeds of beater for different lengths of staple; evener motion and its control of feed rolls; adjustment of grids to regulate amount of waste, disposition of waste; regulation of air current; effects of air current on proper working of the lapper; lap formation; calculation on above machines for drafts, length of lap, etc.

403. Carding

JUNIOR CLASS; COURSE VI.

Purpose of carding; principle upon which cards are built; comparison of types of cards; explanation of purpose and construction of feed plate, licker-in, cylinder, flats, screens, doffer, coiler head, etc.; different settings of cards to produce best results on different lengths and qualities of fibre; regulation of waste; amount of draft; grinding; effects of improper grinding on card clothing and fibre; calculations for changing gears and speeds of various working parts.

404. Railway Heads and Drawing Frames

JUNIOR CLASS; COURSE VI.

Purpose, use, construction, advantages and disadvantages of railway heads; explanation of stop motions, evener; principle of drawing slivers; purpose of drawing frame; comparing work of leather covered and metallic rolls; adjustment of rolls; distribution of draft between the rolls; speeds, stop motions; all calculations on above machines, drafts, production, etc.

405. Fly Frames

SENIOR CLASS; COURSE VI.

Slubber, intermediate, fine roving and jack frames; construction, care and operation of the modern fly frame; bobbin and flyer lead

machines; advantages of the bobbin lead; detailed explanation of working parts, differential motion, horse head, builder, full bobbin stop motion, etc.; adjustment of drawing rolls; calculations for draft, twist, lay, tension and other gears.

406. Yarn Manipulation

SENIOR CLASS; COURSE VI.

In this branch of work is included twisting; reeling; bundling; spooling; beaming. The slasher, construction and use; necessity for sizing; creels, cylinders, size boxes, etc.; mixing of size; different sizing ingredients for special purposes; method of preparing warps for the slasher; various calculations regarding each of the above processes.

407. Combing

SENIOR CLASS; COURSE VI.

Sliver lap machine, its construction, use, etc.; care and operation; leather covered rolls; metallic rolls; ribbon lap machine, its construction, use, etc.; advantages of using same; care and operation; lap formation; combing machine, its use, care and operation; detailed explanation of working parts, cylinder, half laps, segments, detaching rolls, etc.; with rules for adjusting and timing same; regulation of waste made; necessity of the process; relation of the process to fine smooth yarns; practical experience in adjusting above machines; calculations for change gears, etc.

408. Spinning Frames

SENIOR CLASS; COURSE VI.

Construction of the modern ring spinning frames; purpose of ring spinning; discussion of its principal parts; rings and ring holders; various types of spindles in use; speed of spindles; weights, sizes and speeds of travellers; warp, filling and combination builder motions; speeds and settings of rolls for different lengths of staple; effects of twist on the strength, color and elasticity of yarns; calculations for draft, twist, production and various constants.

409. Spinning Mules

SENIOR CLASS; COURSE VI.

Construction and operation of the self-acting spinning mule; special features; description of the head stock; cam shaft, copping rail, nosing motion, easing motion, jacking motion, twisting at the head, etc.; different movements in the mule and timing of the same; formation of a cop; characteristics and uses of mule spun yarn; calculations for draft, twist, builder gear, etc.

Text and Reference Books: Nasmith's Student cotton Spinner; Tompkins' Cotton Mill Processes and Calculations; Taggart's Cotton Spinning; Monie's Sizing and Sizing Compounds.

For description of equipment, see page 79.

Weaving and Designing

Assistant Professor McSwain.

410. Hand Loom Weaving

JUNIOR CLASS; COURSE VI.

The first practical work in weaving is on the hand loom. These hand looms have 4x4 box motion and 30 harness dobbies. After the design and necessary calculations have been made the student proceeds with dressing, drawing-in, reeding, tying the warp in loom, building harness chain and starting up loom; producing different weave effects from the same drawing-in draft by changing the harness chain; using box motions for color effects; combining two or more systems of filling with one system of warp, two or more systems of warp with one system of filling, two or more systems of warp with two or more systems of filling to produce figured fabrics of a special character; explanation of the different methods used in raising and lowering the harness.

411. Power Loom Weaving

JUNIOR AND SENIOR CLASSES; COURSE VI.

Power loom weaving will be taken up after the student has finished the required amount of hand loom work and will include a study of the plain or cam loom; cam motions used for raising and lowering the harness, such as the under cam, side cam, etc.; setting cams; sketching cams to produce a given motion; arrangement of strapping for two, three, four and five harness; timing cams to suit the number of harness used; speed of different width looms on the same class of fabrics; selection of temples and measurements for same; Draper loom; warp stop motion, filling change mechanism, etc.; the dobby analyzed and explained; methods of shedding; head motions; harness chains for single and double index dobbies; chains for head motions; explanation of box motions, four by one, four by four box, etc.; building box motion chains; explanation of multipliers used on box motions and harness motions; let-off motions, Morton, Bartlett, Shepard, and friction let-offs; open and closed shed machines explained; single and double index dobbies, etc.

412. Designing

JUNIOR AND SENIOR CLASSES; COURSE VI.

Purpose of designing, explanation of "warp" and "filling;" representing weaves on design paper; foundation weaves; plain or cotton weaves; weaves derived from plain weaves, such as rib and basket weaves; twill weaves and methods of construction; derivative weave from twills, such as broken, steep, skip, reclining and curved twills; corkscrew twills, entwining twills; satin weave and the purpose of same; weaves derived from satins, such as double satins and granites; shading of satins; figured effects produced by using warp and filling satins; color effects produced by using two or more colors in the above fabrics; methods of constructing granite weaves; points to be

considered in combination weaves; special weaves; honey combs, gauze and imitation gauze, bedford cord, plain and fancy piques, matelasses, etc.; two systems of warp and one system of filling, or two systems of filling and one system of warp for the purpose of figuring; explanation of double cloth, purposes, and class of fabrics in which generally used; representing double cloth weave on design paper; use of different proportions of "back" and "face" for special effects; methods of stitching double cloth so that the stitching will produce a figuring effect; stitching so that it will not show either on "face" or "back" of cloth; leno weaves and method of representing on design paper; methods of making drawing-in drafts, plain and fancy drafts, point, skip, mixed or cross draws; chain drafts; rules for finding the number of heddles required for each harness; methods used in reducing weaves to the lowest number of harness.

413. Jacquard Designing

SENIOR CLASS; COURSE VI.

Explanation of the various Jacquard machines; methods of shedding, such as the rise and drop, single lift, double lift machines; single and double cylinder machine; open and closed shed machine; drawing of tie-ups, straight tie-up, both in French and English system, point tie-up, combination tie-up for special goods, as table damask, Marseilles quilts, etc.; practical operation of tying-up a Jacquard, cutting leashes, threading of comber board, tying on and leveling up mail eyes; figuring comber board for a given texture of goods; casting out hooks to reduce texture of goods without retying the harness, cutting and lacing cards for a given design; selection of design paper for different fabrics, with regard to picks and ends per inch used; methods used in laying out the figure for a Jacquard design; enlarging the sketch for design paper. Instruction will also be given in the principles of special weaves, such as swivel weaving, lappet weaving, chenille and pile fabrics as used for rugs, carpets, etc. The harmony and contrast of colors will also be discussed.

414. Cloth Analysis

SENIOR CLASS; COURSE VI.

Methods of arranging cloth sample for analysis; figuring the counts of cotton, woolen, worsted, and silk yarns; calculations for converting one system of yarn into that of another; finding the weight of cloth per yard and the counts of yarn used in its construction from the analysis; figuring width of warp in reed and number of reed to use to produce a given width and texture when woven; calculations to determine the cost of producing a fabric having given values of material, labor, counts, picks and ends per inch, weight per yard, etc.

This work takes up all representative classes of weaves that can be woven on harness, and gives the student a thorough knowledge of figuring yarns, weight of cloth, ends and picks per inch, etc.

Reference Books: Ivey's Loom Fixing; Fox's Mechanism of Weaving; Posselt's Technology of Textile Designs; Holmes' Cotton Cloth Designing.

For description of equipment, see page 79.

Textile Chemistry and Dyeing

Professor Doggett.

420. Textile Chemistry

JUNIOR CLASS; COURSE VI.

To the qualitative and quantitative analysis of the general course is added a course of lectures in inorganic chemistry especially relating to the materials used in the various textile processes of mordanting, fixing, scouring, bleaching, etc. Also lectures on organic chemistry, taking up as much of the aliphatic series as is necessary for an understanding of the chemical reactions involved in the application of these compounds to textile operations, and to prepare the student for the study of the aromatic compounds. Toward the end of the year the discussion of the simpler aromatic compounds is begun as an introduction to the special work on synthetic dyestuffs in the senior year.

The laboratory work will include the preparation of typical compounds of each class of derivatives taken up in the lectures.

421. Dyeing

SENIOR CLASS; COURSE VI.

A course of lectures is given which covers that portion of the aromatic series which has reference to the study of the principal synthetic dyestuffs. The laboratory work consists of the preparation of certain typical dyestuffs and the study of their reactions. A complete written report of each experiment is required of the student, and written reviews are given each month on the subjects covered in the lectures and laboratory work. The purpose of the course is to give the student an understanding of the chemistry of the operations by which coal tar products are separated, purified and converted into dyestuffs.

A course of lectures is also given on the application of the different classes of dyestuffs to the various fibres, together with the chemical and physical properties of the latter; bleaching and mercerizing of cotton yarns and cloth; scouring and bleaching of wool; the manufacture of artificial silk; calico printing, etc. In the laboratory the dyeing of cotton and wool is carried on in an experimental way, a study being made of typical dyestuffs of each of the principal classes. In the dye-house the dyeing of larger quantities of cotton and wool is carried on, as well as the bleaching and mercerizing of cotton, scouring and bleaching of wool, and the printing of calico.

The student is required to make a written report of each experiment performed, accompanied by samples of the dye material, which have been subjected to the action of various agencies, such as light, acids, alkalies, etc.

The purpose of this training, taken in connection with the work preceding it, is to serve as an introduction to the work of the practical dyer, and to prepare the student for the position of chemist in textile establishments. The constant aim of the instruction is to point out the chemical reactions at the foundation of the above textile operations, so that the student going into practical work in the mills, will

have at his command scientific knowledge sufficient to enable him to study intelligently such problems as may come before him in his line of work.

Reference Books: Richter's Organic Chemistry; Bernthsen's Organic Chemistry; Holleman's Organic Chemistry; Allen's Commercial Organic Analysis; Heermann's Dyer's Materials; Schultz & Julius' Organic Coloring Matters; Georgievics' Chemical Technology of Textile Fibres; Georgievics' Chemistry of Dyestuffs; Kenecht, Rawson & Lowenthal's Manual of Dyeing; Beech's Dyeing of Cotton Fabrics; Hummel's Dyeing of Textile Fabrics; Frap's Principles of Dyeing.

For description of equipment, see page 81.

Academic Department

English

Professor Furman.
Associate Professor Daniel.
Assistant Professors Keitt, Bryan, Bradley.

The purpose of the course in English is to enable the student to acquire the power to express his thoughts with clearness, precision and force; and to cultivate in him a taste for good literature. Elementary English grammar and the rudiments of composition are taught in the preparatory class.

500. English Grammar and Word Studies

PREPARATORY CLASS.

This class is carefully prepared for entry upon the work of this College, several of the professors in English having charge of its sections. The intention is to make the English course continuous, so that there may be no break between the preparatory and freshman work, either in teachers or text-books. The books used in Preparatory class are: Buehler's Grammar, Gilbert's Studies in Words, and such reading texts as may from time to time be selected by the instructors. Special attention is paid to spelling, definition of words, oral reading, and written exercises.

501. English Grammar, Reading and Composition

FRESHMAN CLASS; ALL COURSES.

A review of the subject of grammar introduces the work of this class. Constant drill is given in theme writing; pupils being expected to make use of the College library under direction of instructors. Methods of using dictionaries, encyclopædias, and other reference books are explained practically to the students. Full supplementary readings are required, and practice is given in the writing of abstracts of books so read.

Text-books: Emerson-Lockwood's Lessons in English; Buehler's Practical Exercises in English; Webster's School Dictionary; and such English classics as may be assigned.

502. Rhetoric, Composition, American Literature

SOPHOMORE CLASS; ALL COURSES.

The study of rhetoric is pursued throughout the year. Constant theme writing is required. To supplement the work in composition, a brief course in American Literature is given, and parallel readings from American authors are assigned.

The text-books are Espenshade's Compostion and Rhetoric, and Noble's Studies in American Literature. The parallel reading for 1906-07 consisted of Franklin's Autobiography, Irving's Alhambra,

Cooper's Spy, Hayne's Speech (in the Hayne-Webster debate), Emerson's Nature, Lumell's My Garden Acquaintance, Hawthorne's Scarlet Letter, Selections from the poems of Bryant, Poe, Longfellow, Holmes, Whittier, Lowell, Lanier, and minor Southern poets.

503. English Literature

JUNIOR CLASS; ALL COURSES.

The work in the Junior class begins with the critical study of Macaulay as an essayist. This is followed by a general course in English literature. Pancost's English Literature is the text-book—this work being supplemented by lectures. Monthly essays are required, and frequent oral readings, embracing selections from the principal English authors from Chaucer to the present time.

504. Studies in Shakespeare

SENIOR CLASS; ALL COURSES.

This class is given instruction in the principles of literary criticism. A somewhat full course in Shakespeare study is furnished. Several plays are read in class—the students being orally examined on all questions, grammatical, historical, and ethical, which arises in the study of this author. Monthly essays are required.

History and Political Economy

Professor Morrison.

The course includes history of the United States, South Carolina history, general history, commercial geography, and political economy.

The method of instruction is a combination of the text-book and lecture methods, with parallel reading as far as practicable under the instructor's direction. The class-room is supplied with globes, charts, maps and works of reference, in the use of which the young men are carefully trained. The students make liberal use of the many volumes of poetry, historical romance, biography and history found in the College library.

The history of South Carolina and the history of the South receive special attention. "A people which takes no pride in the noble achievements of a remote ancestry will never achieve anything worthy to be remembered by remote descendants."

510. United States History

PREPARATORY CLASS.

Text-book: A School History of the United States, by White.

511. South Carolina History

FRESHMAN CLASS; ALL COURSES.

Text-book: Weber's History of South Carolina.

512. Commercial Geography

FRESHMAN CLASS; ALL COURSES.

Text-book: Olin's Commercial Geography.

513. General History

SOPHOMORE CLASS; COURSES III., IV., V., VI.
JUNIOR CLASS; COURSES I. AND II.

Text-book: Anderson's New General History.

514. Civics

SOPHOMORE CLASS; COURSES III., IV., V., VI.
JUNIOR CLASS; COURSES I. AND II.

Text-book: Clark's Government.

515. Political Economy

SENIOR CLASS; ALL COURSES.

Text-book: Gide's Principles of Political Economy, second American edition (1904).

Mathematics

Professor Brodie.
Associate Professor Martin.
Assistant Professors Houston, Shanklin, Hunter.

This course presupposes a thorough knowledge of arithmetic and algebra through elementary quadratics. (See requirements for admission, pages 24 and 25.)

520. Algebra

FRESHMAN CLASS; ALL COURSES.

Review of involution, evolution, theory of indices and quadratics; simple indeterminate equations; inequalities; proportion and variation; logarithms.

Well's Text-book in Algebra.

521. Geometry

FRESHMAN CLASS; ALL COURSES.

Rectilinear figures; circles; similar figures; comparison and measurement of surfaces of polygons; regular polygons and circles. Plane and solid angles; polyhedrons; cylinders and cones; spheres, spherical polygons and pyramids; volume. Special attention is given to the formation, on the part of students, of the habit of clear and accurate reasoning and concise expression.

Text-book: Bush and Clarke's Geometry.

522. Trigonometry

SOPHOMORE CLASS; ALL COURSES.

Measurements of angles; trigonometric functions; right triangle; goniometry; relations between functions of one angle; functions of multiple angles; inverse functions; trigonometric equations; oblique triangles; De Moivre's theorem; spherical trigonometry; general formulas; right spherical triangle; oblique spherical triangle; applications.

Text-book: Well's Plane and Spherical Trigonometry.

523. Descriptive Geometry

SOPHOMORE CLASS; COURSES III., IV., V., VI.

Study of the representation of points, lines, planes, surfaces and solids, and of their relations; tangencies, intersections and developments; shades, shadows and perspective; numerous original exercises.

Text-book: Low's Practical Solid or Descriptive Geometry.

524. Higher Algebra

SOPHOMORE CLASS; COURSES III., IV., V., VI.

Progressions; binomial theorem; theory of limits; convergency; divergency; and summation of series; undetermined coefficients; continued fractions; determinants; theory of equations.

Text-book: Well's Text-book in Algebra.

515. Analytic Geometry

SOPHOMORE CLASS; COURSES III., IV., V., VI.
JUNIOR CLASS; COURSES IV., V., VI.

Cartesian and polar systems of co-ordinates; discussion and construction of loci; the straight line; transformation of co-ordinates; circle; parabola; ellipse; hyperbola; general equation of second degree involving two variables; higher plane curves; solid analytic geometry; systems of co-ordinates; equation of the plane; the straight line in space; surfaces of the second order.

Text-book: Tanner and Allen's Analytic Geometry.

526. Differential Calculus

JUNIOR CLASS; COURSES IV., V., VI.

Differentiation of algebraic functions; transcendental functions; successive differentiation and development of functions; functions of two variables; tangents and asymptotes; maxima and minima; radius of curvature; evolutes and involutes; envelopes.

Text-books: Snyder and Hutchison's Differential and Integral Calculus.

527. Integral Calculus

JUNIOR CLASS; COURSES IV., V., VI.

Elementary forms of integration; rational fractions; integration of irrational fractions; successive reduction; integration of functions of

two variables; lengths of curves; areas of plane curves; rectification of curves; cubature of volumes.

Text-books: Snyder and Hutchison's Differential and Integral Calculus.

Civil Engineering

(Included in the Division of Mathematics.)

530. Plane Surveying

SOPHOMORE CLASS; ALL COURSES.

This course includes the general principles and fundamental operations of surveying with compass, level, and transit. The field work includes actual surveys of tracts of land, of which the areas are computed and plats are drawn. Experience is given in problems of laying out and dividing up land, and in locating irregular boundaries. Practice is also had in section and differential levelling.

Text-book: Raymond's Plane Surveying.

531. Higher Surveying

JUNIOR CLASS; COURSE V.

Use and adjustment of transit, stadia, solar compass, and plane-table topographic surveying with transit and stadia; railroad topography; triangulation; city and hydraulic surveying; mine surveying; geodetic surveying; map and plan drawing; topographical symbols, etc.

Text-book: Johnson's Surveying.

532. Highway Engineering

JUNIOR CLASS; COURSE V.

Location, construction and maintenance of country roads and city streets; advantages of various materials for road covering; effects of grades and surface upon the cost of transportation; plans and specifications; practical problems in change of grade and relocation from surveys of existing roads.

Text-book: Spalding's Roads, Streets and Pavements.

533. Railway Engineering

JUNIOR CLASS; COURSE V.

Preliminary and location surveys; location from contour map; laying out of simple and compound curves; setting of slope stakes; computation of earthwork; switches; turnouts; theory of economic location; effects of grades, curves and length upon the cost of operation.

Text-book: Webb's Railway Construction.

534. Rural Engineering

JUNIOR CLASS; COURSES I., II.

This course is arranged with special view to the needs of the agricultural students. Among the subjects taught are: Farm surveying;

laying out and dividing up land; land drainage, including surface-drainage, under-drainage, and hill-side ditching and terracing. Road engineering, a practical course in road making and maintenance, with special reference to conditions in South Carolina. The principles underlying grade and surface resistance, drainage, surfacing, and the best methods of construction are carefully studied. The instruction in the class-room is supplemented by a liberal amount of field practice.

Text-books: Gillespie's Manual of Road-making; Elliott's Farm Drainage.

535. Railway Engineering

SENIOR CLASS; COURSE V.

Surveys are made for a line of railway a mile or more in length; the necessary plans, profiles and cross-sections are prepared; grades are determined, curves laid out, slope stakes set, and all the needed measurements made to enable the student to complete the excavations and embankments, and to estimate the cost of construction.

Text-book: Webb's Railway Construction.

536. Structural Engineering

SENIOR CLASS; COURSE V.

Building materials; mechanics of construction; derivation of practical formulas; masonry; foundations on land and in water; stability of walls and arches; analytical and graphical investigation of stresses in plate girders, Howe, Pratt, Warren and other types of highway and railroad bridges, and various forms of roof trusses; bridge design.

Text-books: Fiebeger's Civil Engineering; Merriman and Jacoby's Roofs and Bridges, Parts I. and III.

537. Hydraulic Engineering

SENIOR CLASS; COURSE V.

Hydrostatics; efflux; resistance and work of liquids; motion of water in pipes and open channels; derivation of practical formulas; hydrostatic and hydraulic machinery; determination of discharge of stream; head and available power; form and dimensions of pond or reservoir; detailed topography of dam site; determination of form and dimensions for stability of dams; preparation of plans and specifications; lectures on water-supply engineering.

Text and Reference Books: Merriman's Hydraulics, Frizel's Water-Power; Wegmann's Construction of Dams; Folwell's Water Supply Engineering.

For description of equipment, see page 82.

Modern Languages

Professor Doggett.

The courses in German and French are designed to give the student general training and culture and to enable him to make use of the languages as an instrument in scientific research.

The course in French is now being arranged.

540. German

JUNIOR CLASS; COURSES I., II., VI.

The Essentials of German Grammar; collateral reading; translation of easy German prose; German prose composition.

Text-books: Thomas' Practical German Grammar; Thomas and Hervey's German Reader; Ball's German Drill Book; Storm's Immensee; Gerstacker's Germerhausen; Howe's German Prose Composition.

541.

JUNIOR CLASS; COURSES I., II., VI.

German Synatax; Study of German Idioms and Prefixes; German prose and easy poetry; Scientific German; translation at sight from German current literature and scientific periodicals.

Text-books: Jagemann's Elements of German Syntax; von Saar's Die Steinklopfer; Schiller's Maria Stuart; Brandt and Day's German Scientific Reading. *Reference-books:* Curme's Grammar of the German Language; Heath's German Dictionary.

Military Department

Captain Clay, U. S. Army, Retired, Director.
Commandant of Cadets.

Military Science and Tactics

Captain Clay.

The course in military instruction, as prescribed and followed, is both theoretical and practical.

600. Tactics and Elements of Military Science

Junior Class; All Courses.

The theoretical instruction, given by recitations and lectures, includes the following, as prescribed by the War Department: The Infantry Drill Regulations, including the School of the Battalion in both close and extended order; the Manual of Guard Duty.

601. Military Science

Senior Class; All Courses.

Small-arms Firing Regulations; the Articles of War, with special refernce to articles 4, 8, 15, 20, 21, 22, 23, 24, 32, 38, 39, 40, 42, 44, 46, 47, 50, 55, 57, 61, and 65. Also the following records: Enlistment and discharge papers, including descriptive lists; morning reports; field and monthly returns; muster rolls; rosters; ration returns; requisitions; property returns.

In addition, ten lectures are given each year upon the following subjects: Two lectures on the organization of the United States Army; one lecture on patrols and outposts; one lecture on marches; one lecture on camps and camp hygiene; three lectures on lines and bases of operations; two lectures on the attack and defense of advance and rear guards, and outposts and convoys.

The articles of war specifically mentioned are among the most important for the young officer to know on first entering service. The records for study should be thoroughly understood by all graduating cadets, because they show how the soldier enters and leaves the service; how he is accounted for, paid, fed, clothed, armed; and how his military duties are regulated.

602. Military Drill

Required of all Cadets.

Drill regulations, including the school of the battalion through close and extended order; advance and rear guards and outposts; marches; the ceremonies of battalion review, inspection, parades, guard mounting, and escort of the colors; infantry target practice; instruction in first aid to the injured; guard duty.

In addition to the benefit which the general government derives from the military instruction given at this and other colleges, it is believed that the discipline enforced, the habits of obedience and punctuality inculcated, the improvement in bearing and appearance of those instructed, and also the practice in directing and commanding others, which nearly all in the course of time get, is of immense benefit to the student individually.

ORGANIZATION AND MODE OF GOVERNMENT
GENERAL INFORMATION

Organization and Mode of Government

The following extracts from the book of "Regulations" explain the organization and mode of government of the corps:

Organization

"1. The President of the College shall have the general command and government of the institution, watching over its administration, discipline and instruction."

"2. The Commandant of Cadets, under the President of the College, has immediate command and control of the corps of cadets in all that pertains to its organization, drill, military police, discipline and administration. He is charged with the instruction of the cadets in the theoretical military course and in all practical military exercises. He will prescribe the order in which the furniture, bedding, books, clothing, equipments, etc., shall be arranged throughout the barracks, and shall, in person, make a minute and thorough inspection of the rooms, furniture, arms and accoutrements, etc., of the cadets at least once each week, and make a report thereon to the President."

"3. For instruction in tactics and for military police and discipline the corps of cadets will be organized into one or more battalions of two or more companies each, and a band when practicable. In case the number of the cadets will permit of the formation of two or more battalions, the organization will be regimental."

"4. The cadet officers and non-commissioned officers will be appointed by the Commandant of Cadets, subject to the approval of the President of the College. The selection for these positions will be made from those cadets who have been most studious and soldier-like in the performance of their duties and most exemplary in their general deport-

ment. As a rule the cadet captains and lieutenants will be selected from the senior class; the non-commissioned staff and the sergeants from the junior class; and the corporals from the sophomore class."

"5. The field and staff shall consist of two cadet majors, two cadet lieutenants and adjutants, one cadet captain and adjutant, one cadet captain and quartermaster. The non-commissioned staff shall consist of one regimental sergeant-major, one regimental quartermaster-sergeant, two battalion sergeant-majors, and one regimental color sergeant."

"6. In each company there shall be one captain, two lieutenants, one first sergeant, one company quartermaster-sergeant, and as many sergeants and corporals as may be required."

"7. Each of the battalions will be commanded, when on drill, and at such other times as the Commandant of Cadets shall direct, by its Cadet Major."

"8. On the graduation of every class the Commandant of Cadets shall obtain the names of such cadets as shall have shown special aptitude for military service, and furnish a list thereof to the Adjutant General of the State for his information. A copy of this list will also be sent to the Adjutant General of the United States Army, and the names of the three most distinguished students in military science and tactics, will, when graduated, be inserted in the United States Army Register."

Leave of Absence

Communications from parents, requesting leave of absence from the College for their sons, must be addressed directly to the President and not through the cadets.

The rules governing in cases of permits to visit home during the session of the College require that cadets who have accumulated more than eight demerits in any one term, and who have fallen below grade two in their studies

on any report, will not be allowed to leave College during the term except in cases of extreme sickness or death in the family.

No leave of absence or honorary discharge will be granted after May 1st, except for serious causes.

Students who have been granted leave of absence and who stay over the date allowed, unless for sickness or other good and valid reasons, will be required to pay again the incidental fee of $5.00 before they will be permitted to continue their studies. In case of sickness, a certificate from the attending physician must be submitted to the President.

General Regulations

In addition to the special regulations of the military department, a copy of which is given each cadet, the following general regulations are enforced.

Cadets are subject to military discipline at all times, and are required to take part in drill, guard duty and other military exercises.

All undergraduate students are required to board in the barracks, except those who live with their parents or relatives near enough to attend from their homes.

Each student is required to purchase the prescribed uniform, also a pair of over-shoes and a water-proof coat. Students may provide themselves with such work-clothes as they desire.

Those occupying a room are consulted before another student is assigned to that room. A student not satisfied with his room-mate has the privilege of applying for permission to move to another room, and such applications are granted when practicable.

Cadets must at all times be respectful in their bearing to professors and other officers of the College.

The practice known as hazing is positively forbidden. All cadets, upon matriculation, shall be required to sign a

pledge not to indulge in hazing or injuring in any form the person of any cadet or give countenance or encouragement thereto while a member of the corps of cadets. Any cadet indulging in this practice will be dismissed from the College.

Cadets are positively forbidden to use, or have in their possession, intoxicating liquors of any description.

Profanity and gambling are positively forbidden.

All combinations of cadets for the purpose of censuring one of their number are prohibited; also all combinations to defeat the purpose of any regulation of the College.

If any cadet shall consider himself wronged by another, or by an officer of the College, he has the right to complain thereof in writing to the President, who will examine into the complaint and take such measures for redressing the wrong as he may deem proper.

Cadets are forbidden to keep any fire-arms or other weapons in their possession not issued by the proper authority.

Any cadet receiving 66 demerits during a College term shall be brought before the Discipline Committee and shall be dismissed or less severely punished.

Any cadet who leaves barracks without authority between retreat and reveille shall be dismissed.

The College rules require that all students be vaccinated, and parents are advised to have this done before sending their sons away from home.

Cadets who receive no demerits during any calendar month will be given a credit of eight to be applied in removing any demerits they may have had charged against them during any preceding months of that term.

Religious Exercises

Chapel Services.—There is preaching in Memorial Hall every Sunday morning by ministers of the different denominations, and chapel services are conducted every morning

by the President and members of the Faculty. All students are required to attend these exercises unless specially excused.

Sunday School.—A Sunday School, at which attendance is voluntary, also meets every Sunday morning, and students are encouraged and urged to attend.

Young Men's Christian Association

Mr. Legate, a general Y. M. C. A. Secretary, is kept here by the organization and devotes his whole time to the work. This is a voluntary organization of the students. Any student who is a member of an evangelical church may become an active member. Any student of good moral character or who desires to improve his moral life may become an associate member. Any friend of the Association may become a sustaining member by paying $5.00 or more annually.

The Association has a large, well-arranged hall on the third floor of the College building. Two regular meetings are held each week. The mid-week prayer service is conducted by the students. The meetings on Sunday evening are conducted by Faculty members, ministers and others. At this service, the entire student body, members of the Faculty and other friends are always welcome.

Possibly the largest work of the Association is its Bible Study. This is the only systematic course of Bible instruction in the college. There were seventeen groups the past year. Each group is led by a student. The work is under the immediate supervision of the General Secretary of the Association. Every student, whether a member of the Association or not, should be a member of some group. Attendance at these classes is entirely voluntary. All students are urged to take one of the courses.

The following courses are offered:

Preparatory Course.—The Life and Works of Jesus, According to St. Mark.—By W. D. Murray.

An introductory course on the Life of Christ less difficult than those in the college cycle. For daily personal study.

Freshman Course.—Studies in the Life of Jesus Christ. —By Edward I. Bosworth.

These Bible studies, recently issued, are arranged for practical daily use, and have already found much favor among college men.

Sophomore Course.—Studies in the Acts and Epistles.— By Edward I. Bosworth.

Based on the "Records and Letters of the Apostolic Age," by Ernest De Witt Burton, and arranged for daily personal study.

Junior Course.—Studies in Old Testament Characters. —By Wilbert Webster White.

A revised edition of this standard book on Old Testament Characters, based on the same outline, but requiring less work of the student than the previous edition. Arranged for daily study.

Courses in Mission Study will also be offered.

Churches.—Episcopalian and Presbyterian churches are located near the College, and a number of students attend their Sunday Schools and preaching services.

Care of the Sick

The Surgeon is one of the regular officers of the College, and his special duty is to look after the health of the students. He also has charge of the hospital, and supervises all matters pertaining to the sanitation of barracks.

At a regular appointed time every day, students who so desire may consult the Surgeon, and those who are sick are cared for by experienced nurses in the College hospital. In case of necessity, students are allowed to consult the Surgeon at any time, or send for him, as may be required.

Parents will be kept fully informed of the condition of sick students. The Surgeon, however, cannot undertake to notify parents every time a student reports to the hospital for medicine, or for rest on account of some slight complaint. Parents may always rest assured that they will be promptly notified of sickness of any consequence; and in case of serious illness the Surgeon will telegraph them.

Student Labor

The College assumes no obligation to furnish employment to students for wages. Considerable manual labor, however, is necessary to carry on the various departments of the College; and, when practicable, students are employed in this work, and are paid at the rate of eight cents an hour. The number applying for work always exceeds the number that can be employed, and those who enter College late in the session are at a special disadvantage in securing work.

No student is allowed to undertake work that interferes with his College course.

Literary Societies

Three literary societies, the Calhoun, the Columbian and the Palmetto, furnish a valuable supplement to the work of the College. These societies afford facilities for practice in debate, oratory, declamation and essay-writing, and their members acquire valuable knowledge of parliamentary law and usage. The meetings are held weekly on Saturday evenings. An annual contest is also held by each society at which there are debates, orations and declamations by the students.

On these occasions a representative is chosen from each society to enter the contest for the Trustees Medal at commencement. The societies themselves also award medals annually to the best debater, orator, and declaimer.

The societies occupy halls in the main College building, which are furnished with carpets and opera-chairs, and are maintained entirely by the students. A small fee is charged for initiation, and there are also monthly dues of a few cents to meet running expenses. All students are advised to join one of these societies.

State Oratorical Contest

The literary societies also send a representative to the annual contests of the South Carolina Intercollegiate Oratorical Association, which includes the following institutions: Furman University, Wofford College, Clemson Agricultural College, Presbyterian College of South Carolina, Erskine College, Newberry College, South Carolina Military Academy, and University of South Carolina.

Publications by the Students

The Clemson College Chronicle, a monthly magazine designed to encourage literary work among the students, is published jointly by the literary societies during the College session.

An annual, an illustrated volume, is published under the auspices of the senior class.

There is also "*The Tiger*" published bi-weekly, being devoted largely to athletics.

Science Club

The Clemson College Science Club was organized for the purpose of promoting knowledge of the progress of the natural sciences, theoretical and applied. Public meetings are held every month, at which subjects of general scientific interest are discussed by members of the Faculty and advanced students of the College.

Lecture Course

A lecture course, employing some of the best talent on the American platform, is provided every session. These

lectures are delivered in Memorial Hall, at a cost to students of $1.00 for the course. During the session of 1906-1907 the following lectures and concretes were given:

1. International Grand Concert Co.....Oct. 4
2. The Old Homestead Male Quartette.....Oct. 27
3. Leland Powers .....Nov. 14
4. Lyman Abbott .....Dec. 7
5. The Romeo Frick Concert Co.....Jan. 26
6. Geo. R. Wendling .....Feb. 23
7. Victor's Venetian Band.....April 6
8. Parland Newhall Quartette.....April 27

Cadet Exchange

A Cadet Exchange is maintained, where students may purchase at wholesale prices necessary articles, such as books, stationery, collars, cuffs, underwear, etc.

College Athletics

It is the policy of the College to sanction and encourage athletics so long as they do not interfere with studies and other duties. Football and baseball are the most popular games, and it is assumed that parents are willing for their sons to participate in these games unless the President is definitely notified to the contrary. The athletic teams are permitted to take a few trips each season, usually on Saturdays, to play intercollegiate games.

Athletic Council.—The Southern Intercollegiate Athletic Association, of which the College is a member, has placed the athletic interests of each college under the supervision of an Athletic Council, consisting of members of the Faculty and of the student body. This council consists of nine members—two members of the Faculty selected by the students for president and secretary-treasurer, respectively, three members of the Faculty chosen by the Faculty, and the four class presidents.

Intercollegiate Athletics.—For the regulation of intercollegiate athletics, the Faculty has adopted the following rules:

1. Any student who fails on more than two subjects during a collegiate month shall not be allowed to participate in match games during the ensuing month. If, by reason of absence or other cause, a grade on the month's work is lacking, the instructor shall give a temporary grade based upon the work done, and this temporary grade shall be used in determining the student's athletic standing until the regular grade is available.

2. No student who is found to be deficient in more than one subject for a term shall be allowed to play in any match game during the next college year. Change from one course to another, or from a regular to an irregular or special course, shall not interfere with the operation of this rule.

3. No graduate student shall participate in any match game unless he is taking at least twenty hours per week of graduate work; that is, work of a higher grade than is given in the regular college courses. Such student shall also conform to the rules of class standing as set forth in Sections 1 and 2. Further, no graduate student of more than one year's standing shall participate in any match game.

4. No irregular or special student shall be allowed to represent the College in any match game unless taking at least twenty-four hours' work per week, of which not less than twelve hours shall be "theoretical" work.

5. No football player who leaves College before the end of the first term, except for reasons satisfactory to the Faculty Athletic Committee, shall be allowed to participate in match games during the next three college terms.

6. That a student taking a class over be not allowed to play football who has any monthly failure in any subject.

7. A student taking a class over is allowed to play, provided, he passes in the first and second terms without any failures, and is otherwise eligible.

8. It shall be the duty of the Faculty Athletic Committee to see that the foregoing rules and regulations are strictly enforced.

9. No team shall be allowed to leave the College grounds to participate in any match game unless accompanied by a member of the Faculty, who shall be responsible to the Faculty for the conduct of the players and coaches while away from the College. Such representative shall be appointed by the Chairman of the Faculty Athletic Committee, and his expenses shall be included in the expenses of the trip.

Field Day.—May 1st is observed as a holiday for contests in track and field athletics, such as running, hurdling, high and broad jumping, pole-vaulting, hammer-throwing, putting the shot, etc., and is known as "Field Day."

Donations

Mechanical Department.

Keuffel & Esser Co., New York.—One 80-inch slide rule.

Lunkenheimer Co., Cincinnati, O.—Sections of valves and injector.

The Continental Iron Works, New York.—Section model of internal furnace boiler.

Textile Department.

The A. T. Atherton Machine Co., Pawtucket, R. I.—One automatic feeder; one finisher lapper; one lot lap rods; half value on breaker lapper.

Saco & Pettee Machine Co., Newton Upper Falls, Mass—One 40-in. revolving top flat card; one Entwistle traverse grinder; one Entwistle drum grinder; one burnisher; one set carder's tools; one improved railway head, with back, front and full can stop motion; one 4 delivery draw frame, with back, front and full can stop motion, fitted with single preventer rolls; one 40 spindle slubber; one 60 spindle intermediate roving frame; one 80 spindle fine roving frame; one 128 spindle combination warp and filling ring spinning frame; one 72 spindle improved spooler. A sufficient number of gears were sent with these machines to make various changes that may be necessary.

Mason Machine Works, Taunton, Mass.—One 40-in. revolving top flat card; one Entwistle drum grinder; one stripper brush; one set carders' tools; one railway head, with back, front and full can stop motion; one 4 delivery draw frame, with back, front and full can stop motion, fitted with single preventer roll; one 112 spindle combination warp and filling ring spinning frame; one 40-in. plain loom; one 36-in. fancy cotton loom; one 36-in. 24 harness dobby loom; half value on combing machinery. All necessary gears with these machines to make the required changes.

The D. A. Tompkins Co., Charlotte, N. C.—One adjustable reel; one draw-in frame; one loom box; one doffer box; two section beams; one switch board, complete; one emery wheel and stand; one band machine; one saw tooth model gin; one spike tooth model gin.

Draper Co., Hopedale, Mass.—One 40-in. Northrop loom; one 28-in. Northrop loom; one 48 spindle combination wet and dry twister; one 40 spindle spooler; one section warper; one ball warper; one Rhodes' banding machine, with Watt's patent marking device; section beams; temples as required; loom findings.

Crompton & Knowles Loom Works, Providence, R. I.—Half value on following: One 32-in. loom, with 416 hook Jacquard; one 32-in. loom, with leno attachment; one 65-in. 4x1 box loom, with 624 hook Jacquard; one 36-in. Knowles "Gem" loom; one 36-in. fancy cotton towel loom; one 30-in. Knowles fancy cotton loom, with 16 harness dobby; two 16 harness dobbies.

Universal Winding Co., Boston, Mass.—One 6 spindle cone and tube winder.

Woonsocket Machine and Press Co., Woonsocket, R. I.—Half value on one 96 spindle jack roving frame.

T. C. Entwistle, Lowell, Mass.—Half value on one beaming frame.

Fales & Jenks Machine Co., Pawtucket, R. I.—Two combination warp and filling spinning frames, 80 spindles each; one wet twister, combined filling and taper top wind, 70 spindles; half value on twister like above, all necessary gears, etc.

T. B. Wood's Sons, Chambersburg, Pa.—One-fourth value on equipment of shafting, hangers and pulleys used in new extension of building.

Jones & Laughlin Co., Limited, Pittsburg, Pa.—The entire original equipment of shafting, hangers and pulleys.

Whitin Machine Works, Whitinsville, Mass.—Half value on following: One 40-in. cam loom; one 40-in. loom, with 20 harness dobby; one 30-in. duck loom; two combination warp and filling ring spinning frames, 80 spindles each; all gears, etc.

Schaum & Uhlinger, Philadalphia, Pa.—One top engine drive, self-balancing, hydro-extractor.

The Metallic Drawing Roll Co., Indian Orchard, Mass.—Metallic drawing rolls for railway heads and draw frames as required.

Westinghouse Electric Co., East Pittsburg, Pa.—One 22 K. W., 220 volt direct current motor.

The American Moistening Co., Boston, Mass.—Complete system of "Vortex" humidifiers, including pump, tank and connections.

Beattie Machine Works, Cohoes, N. Y.—One single elastic stitch looper.

E. Jenckes Manufacturing Co., Pawtucket, R. I.—One "Invincible" seamless hosiery knitting machine.

W. W. Altemus & Son, Philadelphia, Pa.—One bobbin winder.

New Bedford Paper Co., New Bedford, Mass.—Cops, cones, tubes, etc., as required.

Charlotte Supply Co., Charlotte, N. C.—All belting as required.

American Supply Co., Providence, R. I.—Heddles, heddle frames, reeds and loom supplies as required.

Loom Picker Co., Biddeford, Me.—Loom supplies.

The Emmons Loom Harness Co.—Cotton harness, reeds and loom supplies.

Roney & Rae Co., Woonsocket, R. I.—Twelve bobbin holders.

Steel Heddle Manufacturing Co., Philadelphia, Pa.—2,500 patented flat steel heddles.

R. A. Blythe, Philadelphia, Pa.—One lot mercerized yarns.

Barber & Coleman, Boston, Mass.—One Barber knotter.

National Ring Traveller Co., Providence, R. I.—One lot of spinning and twister travellers.

DeHaven Manufacturing Co., Brooklyn, N. Y.—One lot of spinning and twister travellers.

Victor Shaw Ring Traveller Co., Providence, R. I.—One lot spinning travellers.

Morley Button Manufacturing Co., Boston, Mass.—One lot spinning travellers.

Sykes & Street, New York, N. Y.—Collection of dye stuffs.

New York and Boston Dyewood Co., New York, N. Y.—Collection of dye stuffs.

Victor G. Bloede & Co., Baltimore, Md.—Collection of dye stuffs and mordants.

Cassella Color Co., New York, N. Y.—Large collection of dye stuffs.

Kuttroff, Pickardt & Co., New York, N. Y.—Collection of dye stuffs.

Farbenfabriken, of Elberfield Co., New York, N. Y.—Large collection of dye stuffs, over 300 samples.

H. A. Metz & Co., New York, N. Y.—Large collection of dye stuffs.

Grasselli Chemical Co., New York, N. Y.—Chemicals used in dyeing.

Schoellkopf, Hartford & Hanna & Co., Buffalo, N. Y.—Large collection of dye stuffs.

Roessler & Hasslacher Chemical Co., New York, N. Y.—Sodium peroixde for bleaching demonstrations.

Berlin Aniline Works, New York, N. Y.—Collection of dye stuffs.

Chas. J. Fox, Philadelphia, Pa.—50 lbs. textile soaps.

Kalle & Co., New York, N. Y.—Collection of dye stuffs.

A. Klipstein & Co., New York, N. Y.—Collection of dye stuffs.

Woonsocket Reed and Shuttle Works, four self-threading shuttles.

Southern Railway Co.—Half freight rates, over their lines, on entire original equipment of machinery.

Donations to the Library

Since the publication of the last catalogue, the library has received gifts from the following:

Supt. of Education—The Jews of South Carolina, Barnett A. Elzas.

Ex. Committee—The 250th Anniversary of Settlement of Jews in the U. S.

———————— Southern Gardener's Practical Manual, J. S. Newman.

Mrs. Wm. Henry Trescot—History of South Carolina College, M. La Borde.

Dr. P. H. E. Sloan—The Packer, The Private Car Lines and the People, J. Ogden Armour.

Mrs. P. H. Mell—Belshazzar (A Tale of Babylon), Wm. Stearns Davis.

W. H. Wylie—Treatise on the Vine, W. R. Prince.

B. C. Hard—A Maid of the Foot-Hills, James W. Daniels.

W. E. Gonzales—History of Old Cheraws, Alexander Gregg.

W. E. Gonzales—School History of South Carolina, John J. Dargan.

Cadet G. F. Garlington—Men of the Times, South Carolina Leaders, J. C. Garlington.

Prof. C. S. Doggett—24 volumes in science.

PAMPHLETS.

Hon. Andrew Carnegie—James Wilson, Patriot, and the Wilson Doctrine.

A. S. Salley, Jr.—Report of Historical Commission of South Carolina.

A. S. Salley, Jr.—Contents of South Carolina Gazette, January, 1732.

A. S. Salley, Jr.—Sketch of William Rivers.

A. S. Salley, Jr.—Sketch of the Calhoun Family.

PAPERS.

The Prairie Farmer, The Practical Farmer, The Progressive Farmer, The Southern Farmer, Southern Farm Gazette, National Farmer and Stock Grower, American Agriculturist, Four Trade News, The Greenville Daily News, The Anderson Daily Mail, The Spartanburg, Herald, Herald and News, The Patriot, The Manning Times, The Athens Banner, The Abbeville Press and Banner, The Clinton Chronicle, Our Monthly, The Baptist Courier, The Baptist Press, Wool and Cotton Reporter.

NOTE.—A special book is kept in which the record of every donation is preserved, and a special label, stating the name of the donor, is placed in each volume presented.

Donations to the Museum

The Museum during the past year has received the following:

A silver sewing bird formerly owned by Mrs. John C. Calhoun and afterwards by her daughter, Mrs. Clemson, has been contributed by Mr. J. C. Stribling, of Pendleton, S. C.

The pen used by the original seven Life Trustees in accepting the Clemson bequest has also been presented by Mr. J. C. Stribling.

From H. C. Markley, Greenville, S. C., a flint-lock musket, an old iron cotton tester, one pike.

From Dr. P. H. Mell, one of the first cameras manufactured in this country, specimens of old Egyptian cloth.

From H. H. Smith, of the New York World, bark of the

lace paper tree from the Barbadoes, cocoa pod from Trinidad, melted links of iron chain from St. Pierre, Trinidad nutmegs.

From Prof. T. W. Keitt, copper ore from North Carolina, rattlesnake skin from North Carolina.

From the State Geologist, collection of minerals and rocks from South Carolina.

From Oren B. Brodie, minerals and specimens of Indian arrow-heads and pottery.

From Miss Trescott, a set of custard cups.

From F. H. H. Calhoun, minerals and rocks from Colorado, Utah, New Mexico, Arizona, Montana and Illinois.

Donations to the Textile Museum

One reel, made by John Verner, a Revolutionary soldier; loaned by Miss Mary R. Shelor, Westminster, S. C.

One hand loom, loaned by Dr. W. B. Noffz, Cross Hill, S. C.

Samples ticking, from the Lexington Mfg. Co., Lexington, S. C.

One copy of "The Cotton Gin. The History of Its Invention," by D. A. Tompkins. Presented by the author.

700 mounted cloth samples, from Marshall Field & Co., Chicago, Ill. Complete set of samples of cloth in demand in the Chinese market, showing defects of American goods, from U. S. Department of Commerce and Labor.

Experiment Station and Inspection Work

Clemson College is not only engaged in providing courses of instruction for the youths of the State, but under the laws of South Carolina it is conducting work of great importance to the farmers, fruit growers, and people engaged in animal industry. There are four departments of experimentation and inspection inaugurated by the Board of Trustees:

1. Experiments in Agriculture (State Experiment Station).
2. Inspection of Fertilizers.
3. Veterinary Inspection.
4. Entomological Inspection.

The Experimental Station is devoted to experiments in subjects relating to the chemical composition of plants and soils; rotation experiments; plant breeding; study of forage plants for hay and pasturage; plant diseases; diseases of animals, such as tuberculosis, Texas fever, glanders; feeding of pigs; general dairy experiments; insects injurious and beneficial to plants; studies of varieties of fruits; methods of pruning grape vines, etc.

Bulletins giving the results of these experiments are published at intervals during the year, and are mailed free to every one who applies for them.

Although the Station was established for the benefit of the farmers, students of the College profit by the experiments, in connection with the regular coures of study.

The second division, viz: the inspection of fertilizers, is conducted by the Board of Trustees for the protection of the farmers in the State against the introduction of fraudulent brands of fertilizers. The inspectors are appointed by the Board of Trustees, and the entire work of issuing tags, the analysis of samples and the enforcement of the law, is in the hands of the Board of Trustees of Clemson College. After paying the expenses required for conducting this inspection, all the surplus money is turned over to the College for running expenses and equipment.

On the 19th of February, 1901, the General Assembly passed an Act empowering the Board of Trustees of Clemson College to promulgate and enforce rules and regulations for the guidance of the Veterinarian of the College for the treatment or destruction of animals affected with contagious diseases, and to prescribe the powers of the Veterinarian whenever such diseases appear in any part of the State. Under this law the Veterinarian, upon receipt of a notice from two citizens, is authorized to investigate outbreaks of infectious or contagious diseases among domestic animals and to apply such measures as are necessary to protect the public from injury from the same.

The Entomologist is required by the State law to inspect all nursery stock coming into the State and to prevent the ravages of insects as far as possible.

On the 19th of February, 1901, the General Assembly passed an Act requiring the Board of Trustees of Clemson College to designate three of their number, to be known as the State Board of Entomology. To the said Board was given all power to adopt rules and regulations

governing the inspection relative to the sale and transportation of trees, plants, shrubs, cuttings, buds, vines, bulbs, or roots that they may deem advisable in order to prevent or remove or destroy any insect pests or plant diseases in the State. The Board was also given power to appoint an Entomologist, who should be a skilled Horticulturist, and Assistant Entomologist, if, in their judgment, it would be impossible for the Entomologist to discharge the duties hereby devolved upon him. Such an Entomologist was also given the powers of an inspector, with authority to visit in sections of the State where insects injurious to plants are believed to exist, and to determine whether such plants should or should not be destroyed.

Popular Science Bulletins

In addition to the Experiment Station bulletins setting forth the results of experiments and other investigations in the interest of agricultural industries, the College has inaugurated a series of bulletins on a variety of scientific subjects of interest to the people at large, and written, as far as practicable, in non-technical language. A number of these are now in preparation, including the subjects of road construction and maintenance, protection against lightning, etc. They will be mailed, like the Experiment Station bulletins, free of charge to those who apply for them.

Analyses, Information, Etc.

The various departments of the College and Experiment Station will furnish, free of charge, advice and information on any topic pertaining to general agriculture, horticulture, botany, entomology, veterinary science, dairying, stock breeding, etc.; also, analyses of fertilizers, marls, waters and other substances, assays of ores, determination of rocks and minerals, tests of bricks, cements, building stones, illuminating oils, calibration of electrical instruments, etc.

The departments cannot undertake to analyze stomachs or other parts of poisoned animals, or to make tests for poisons.

All inquiries and requests should be addressed to the President, giving explicit account of conditions, difficulties, etc., as far as possible, and the matter will be referred promptly to the proper department for further correspondence.

Before sending samples of any kind for examination or analysis, it is best to write for instructions, and thus avoid trouble and delay.

Analyses for State Geologist

In addition to the work referred to above, analyses are made for the State Geologist of the various materials collected by him. These analyses are made as provided for in paragraph 14, section 1, Act of the General Assembly No. 605, approved February 22, 1902.

Farmers' Institutes

During the year farmers' institutes are held, under the management of the College, in many counties of the State. The President and pro-

fessors of agriculture, chemistry, horticulture, dairying, veterinary science, botany, and other members of the Faculty, take part in these institutes. The effort is made to bring practical information to the farmer, and to give him the results of scientific investigation in the interest of agriculture. The success thus far attained is most encouraging, and these institutions have become a permanent feature in the work of the College.

Farmers wishing an institute held in their county or community should write to the President.

During the fall and winter months, the College had the use of a vestibule car loaned it by the Southern Railway. This car was transported free of cost to thirty-two different towns along the Southern and Atlantic Coast Line railways. A number of lectures from the College, and experts in various lines from outside the State, accompanied the car to give lectures on subjects relating to agriculture.

This car was used as an exhibit car, illustrating the work done at Clemson by students in the various departments. It contained dairy apparatus, material to show best the methods of pruning grapes, fruit trees, methods of building, etc. Forty-five varieties of cowpeas, twenty varieties of corn, thirty varieties of wheat, samples of fertilizer constituents, geological specimens of valuable minerals found in the State, were also to be seen in this car. The car was also fitted with a magic lantern to give illustrated lectures on various subjects.

Thomas G. Clemson's Will

The following paragraphs are extracts from Mr. Clemson's will relating to the establishment of the College:

Whereas, I, Thomas G. Clemson, of the County and State aforesaid, did, on the 14th of August, 1883, execute my last will and testament, wherein I sought to provide for the establishment of a scientific institution upon the Fort Hill place, and therein provided what sciences should be taught in said institution; and, whereas, I am now satisfied that my intention and purpose therein may be misunderstood as intending that no other studies or sciences should be taught in said institution than those mentioned in said will, which was not my purpose or intention: Now, desiring to make my purpose plain, as well as to make some other changes in the disposition of my property than made in said will, I do now make, publish and declare this instrument as and for my last will and testament, hereby revoking all previous wills and codicils by me made, especially the will above referred to, dated August 14th, 1883. Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable,

physical with intellectual education, and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture. But I desire to state plainly, that I wish the Trustees of said institution to have full authority and power to regulate all matters pertaining to said institution, to fix the course of studies, to make rules for the government of the same, and to change them, as in their judgment experience may prove necessary; but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agricultural and mechanical industries. I trust I do not exaggerate the importance of such an institution for developing the material resources of the State, by affording its youth the advantage of scientific culture, and that I do not over-rate the intelligence of the Legislature of South Carolina, ever distinguished for liberality, in assuming that such appropriations will be made as will be necessary to supplement the fund resulting from the bequest herein made.

ITEM 1.—I therfore give and devise to my executor, hereinafter named, the aforesaid Fort Hill place, where I now reside, formerly the house of my father-in-law, John C. Calhoun, consisting of eight hundred and fourteen acres, more or less, in trust that whenever the State of South Carolina may accept said property as a donation from me, for the purpose of thereupon founding an Agricultural College, in accordance with the views I have hereinbefore expressed (of which the Chief Justice of South Carolina shall be the Judge), then my executor shall execute a deed of the said property to the said State and turn over to the same all property hereinafter given as an endowment of said institution, to be held as such by the said State so long as it in good faith devotes said property to the purpose of the donation: *Provided, however,* That this acceptance by the State shall be signified, and a practical carrying out be commenced, within three years from the date of the probate of this my will. During this term of three years, or as much thereof as may elapse before the acceptance or refusal of this donation, my executor shall invest the net produce of the land and other property, such invested fund awaiting the action of the Legislature, and to form a part of the endowment of said institution, if accepted, or to form a part of the endowment of the college or school hereinafter provided for, should the donation not be accepted by the State.

ITEM 2.—The following named gentlemen, seven in number, shall be seven of the Board of Trustees, to wit: R. W. Simpson, D. K. Norris, M. L. Donaldson, R. E. Bowen, B. R. Tillman, J. E. Wannamaker, and J. E. Bradley; and the State, if it accepts the donation, shall never increase the Board of Trustees to a number greater than thirteen in all, nor shall the duties of said Board be taken away or conferred upon any other men or body of men. The seven Trustees appointed by me shall always have the right, and the power is hereby given them and their successors, which right the Legislature shall never take away or abridge, to fill all vacancies which may occur in their number by death, resignation, refusal to act, or otherwise. But the Legislature may provide as it sees proper for the appointment

or election of the other six Trustees, if it accepts the donation. And I do hereby request the seven Trustees above named, or such of them as may be living, or may be willing to act, to meet as soon after my death as practicable, and organize and at once fill all vacancies that may have occurred, and exert themselves to effectuate my purposes as herein set forth. And I hereby instruct my executor to notify them of their appointment herein, as soon as practicable. The name of this institution is to be "The Clemson Agricultural College of South Carolina."

ITEM 4.—It is my desire that the dwelling house on Fort Hill shall never be torn down or altered, but shall be kept in repair, with all the articles of furniture and virtu, which I hereinafter give for that purpose, and shall always be open for the inspection of visitors; but a part of the house may be used by such of the Professors as the Trustees may direct.

Laws of Congress Relating to the College

AN ACT donating public lands to the several States and Territories which may provide Colleges for the benefit of agriculture and the mechanic arts.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there be granted to the several States, for the purpose hereinafter mentioned, an amount of public land, to be apportioned to each State a quantity equal to thirty thousand acres for each Senator and Representative in Congress to which the States are respectively entitled by the apportionment under the census of eighteen hundred and sixty: *Provided,* That no mineral lands shall be selected or purchased under the provisions of this Act.

SEC. 2. *And be it further enacted,* That the lands aforesaid, after being surveyed, shall be apportioned to the several States in sections or subdivisions of sections not less than one-quarter of section; and whenever there are public lands in a State subject to sale at private entry at one dollar and twenty-five cents per acre, the quantity to which said State shall be entitled shall be selected from such lands within the limits of such State; and the Secretary of the Interior is hereby directed to issue to each of the States in which there is not the quantity of public land subject to sale at private entry at one dollar and twenty-five cents per acre, to which said State may be entitled under the provisions of this Act, land script to the amount of acres for the deficiency of its distributive share; and script to be sold by said State, and the proceeds thereof applied to the uses and purposes prescribed in this Act, and for no other use or purpose whatever: *Provided,* That in no case shall any State to which land script may thus be issued be allowed to locate the same within the limits of any other State, or of any Territory of the United States, but their assignees may thus locate said land script upon any of the unappropriated lands of the United States subject to sale at private entry, at one dollar and twenty-five cents or less per acre; *and provided further,* That not more than one million acres shall be located by such assignees in any one of the States; *and provided further,* That no

such location shall be made before one year from the passage of this Act.

SEC. 3. *And be it further enacted,* That all the expenses of management, superintendence and taxes, from date of selection of said lands previous to their sales, and all expenses incurred in the management and disbursement of the money which may be received therefrom, shall be paid by the States to which they may belong, out of the treasury of said States, so that the entire proceeds of the sale of said lands shall be applied without any diminution whatever to the purposes hereinafter mentioned.

SEC. 4. *And be it further enacted,* That all moneys derived from the sale of the lands aforesaid by the State to which the lands are apportioned, and from the sale of land script hereinbefore provided for, shall be invested in stocks of the United States, or of the States, or of some other safe stocks yielding not less than five per centum upon the par value of said stocks; and that the moneys so invested shall constitute a perpetual fund, the capital of which shall remain forever undiminished (except so far as may be provided in fifth Section of this Act), and the interest of which shall be inviolably appropriated by each State, which may take and claim the benefit of this Act to the endowment, support and maintenance of at least one College, where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, and in such manner as the Legislature of the States may prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.

SEC. 5. *And be it further enacted,* That the grant of land and land script hereby authorized shall be made on the following conditions, to which, as well as to the provisions hereinbefore contained, the previous assent of the several States shall be signified by legislative acts.

1. If any portion of the fund invested as provided by the foregoing section, or any portion of the interest thereon, shall by any act or contingency be diminished or lost, it shall be replaced by the State to which it belongs, so that the capital of the fund shall remain forever undiminished; and the annual interest shall be regularly applied without diminution to the purposes mentioned in the fourth Section of this Act, except that a sum not exceeding ten per centum upon the amount received by any State under the provision of this Act may be expended for the purchase of lands for sites of experiment farms whenever authorized by the respective Legislatures of said States.

2. No portion of said fund, nor interest thereon, shall be applied directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings.

3. Any State which may take and claim the benefit of the provisions of this Act, shall provide within five years at least not less than one College, as described in the fourth Section of this Act, or the grant to said State shall cease; and said State shall be bound to pay the United States the amount received of any lands previously sold, and the title to purchasers under the State shall be valid.

4. An annual report shall be made regarding the progress of each College, recording any improvements and experiments made, with their costs and results, and such other matters, including State and industrial statistics, as may be supposed useful; one copy of which shall be transmitted by mail free by each to all the other Colleges which may be endowed under the provisions of this Act, and also one copy to the Secretary of the Interior.

5. When lands shall be selected from those which have been raised to double the minimum price, in consequence of railroad grants, they shall be computed to the State at the maximum price, and the number of acres proportionately diminished.

6. No State, while in a condition of rebellion or insurrection against the government of the United States, shall be entitled to the benefit of this Act.

7. No State shall be entitled to the benefit of this Act unless it shall express the acceptance thereof by the Legislature within two years of the date of its approval by the President.

SEC. 6. *And be it further enacted,* That land script issued under the provisions of this Act shall not be subject to location until after the first day of January, one thousand eight hundred and sixty-three.

SEC. 7. *And be it further enacted,* That the land officers shall receive the same fees for locating land script issued under the provisions of this Act as are now allowed for the location of military bounty land warrants under existing laws: *Provided,* That maximum compensation shall not be thereby increased.

SEC. 8. *And be it further enacted,* That the Governors of the several States to which script land shall be issued under this Act shall be required to report annually to Congress all sales made of such scrip until the whole shall be disposed of, the amount recived for the same, and what appropriation has been made of the proceeds.

Approved July 2, 1862.

Agricultural Appropriation Act, passed Senate, February 21, 1907; passed House, March 2, 1907. Approved by the President, March 4, 1907.

That there shall be, and hereby is, annually appropriated out of any money in the Treasury not otherwise appropriated, to be paid as hereinafter provided, to each State and Territory for the more complete endowment and maintenance of agricultural colleges now established, or which may hereafter be established, in accordance with the Act of Congress, approved July 2, 1862, and the Act of Congress, approved August 30, 1890, the sum of $5,000, in addition to the sums named in said Act, for the fiscal year, ending June 30, 1908, and an annual increase of the amount of such appropriation thereafter for four years by an additional sum of $5,000 over the preceding year, and the annual sum to be paid thereafter to each State and Territory shall be $50,000, to be applied only for the purpose of the agricultural colleges as defined and limited in the Act of Congress, approved July 2, 1862, and the Act of Congress approved August 30, 1890.

That the sum hereby appropriated to the States and Territories for the further endowment and support of the colleges shall be paid by,

to, and in the manner prescribed by the Act of Congress, approved August 30, 1890, entitled, "An Act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts established under the provisions of the Act of Congress, approved July 2, 1862," and the expenditure of the said money shall be governed in all respects by the provisions of the said Act of Congress, approved July 2, 1862, and the said Act of Congress, approved August 30, 1890: *Provided,* That said colleges may use a portion of this money for providing courses for the special preparation of instructors for teaching the elements of agriculture and the mechanic arts.

AN ACT to establish Agricultural Experiment Stations in connection with the college established in the several States under the provisions of an Act approved July 2, 1862, and of the Acts supplementary thereto.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science, there shall be established, under direction of College or Colleges, or Agricultural Department of Colleges in each State or Territory established, or which may hereafter be established, in accordance with the provisions of an Act approved July 2, 1862, entitled "An Act donating public lands to the several States and Territories which may provide Colleges for the benefit of Agriculture and the Mechanic Arts," or any of the supplements to said Act, a department known and designated as an "Agricultural Experiment Station:" *Provided,* That any State or Territory in which two such Colleges have been or may be so established, the appropriation hereinafter made to such State or Territory shall be equally divided between such Colleges, unless the Legislature of such State or Territory shall otherwise direct.

SEC. 2. That it shall be the object and duty of said Experiment Stations to conduct original researches or verify experiments on the physiology of plants and animals; the disease to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying condition and needs of the respective States and Territories.

SEC. 2. That in order to secure, as far as practicable, uniformity of methods and results in the work of said stations, it shall be the duty of the United States Commissioner of Agriculture to furnish forms, as far as practicable, for the tabulation of results of investigation or experiments; to indicate, from time to time, such lines of inquiry as to him shall seem most important; and, in general, to furnish such advice and assistance as will promote the purposes of this Act. It shall be the duty of each of said stations annually, on or before the first day of February, to make to the Governor of the State or Territory in which it is located a full and detailed report of its operations, including a statement of receipts and expenditures, a copy of which report shall be sent to each of said stations, to the Commissioner of Agriculture, and to the Secretary of the Treasury of the United States.

SEC. 4. That bulletins or reports of progress shall be published at said stations at least once in three months, one copy of which shall be sent to each newspaper in the States or Territories in which they are respectively located, and to such individuals actually engaged in farming as may request the same, and as far as the means of the station will permit. Such bulletins or reports and the annual reports of said stations shall be transmitted in the mails of the United States free of charge for postage, under such regulations as the Postmaster General may from time to time prescribe.

SEC. 5. That for the purpose of paying the necessary expenses of conducting investigations and experiments and printing and distributing the results as hereinbefore prescribed, the sum of $15,000 per annum is hereby appropriated to each State, to be especially provided for by Congress in the appropriations from year to year, and to each Territory entitled under the provisions of Section eight of htis Act, out of any money in the treasury proceeding from the sales of public lands, to be paid in equal quarterly payments, on the first day of January, April, July and October in each year, to the Treasurer or other officer duly appointed by the governing boards of said Colleges to receive the same, the first payment to be made on the first day of October, 1887: *Provided, however,* That out of the first annual appropriation so received by any station an amount not exceeding one-fifth may be expended in the erection, enlargement, or repair of a building or buildings necessary for carrying on the work of such station; and thereafter an amount not exceeding five per centum of such annual appropriation may be so expended.

SEC 6. That whenever it shall appear to the Secretary of the Treasury from the annual statement of receipts and expenditures of any of said stations that a portion of the preceding annual appropriation remains unexpended, such amount shall be deducted from the succeeding annual appropriation to each station, in order that the amount of money appropriated to any station shall not exceed the amount actually and necessarily required for its maintenance and support.

SEC. 7. That nothing in this Act shall be construed to impair or modify the legal relation existing between any of the said Colleges and the government of the States or Territories in which they are respectively located.

SEC. 8. That in States having Colleges entitled under this Section to the benefits of this Act and having also Agricultural Experiment Stations established by law separate from said Colleges, such States shall be authorized to apply such benefits to experiments at stations so established by such States; and in case any State shall have established under the provisions of said Act July 2d aforesaid, an Agricultural Department or Experiment Station, in connection with any University, College, or institution not distinctively an Agricultural College, or School, and such States shall have established or shall hereafter establish a separate Agricultural College or School, which shall have connected therewith an Experimental Farm or Station, the Legislature of such State may apply in whole or in part the appropriation made by this Act, to separate Agricultural College or School, and no Legislature shall by contract expressed or implied disable itself from so doing.

SEC. 9. That the grant of moneys authorized by this Act are made subject to the legislative assent of the several States and Territories to the purposes of said grants: *Provided,* That payment of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of its Legislature meeting next after the passage of this Act shall be made upon the assent of the Governor thereof, duly certified to by the Secretary of the Treasury.

SEC. 10. Nothing in this Act shall be held or construed as binding the United States to continue any payments from the Treasury to any or all the States or institutions mentioned in this Act, but Congress may at any time amend, suspend or repeal any or all the provisions of this Act.

Approved March 2, 1887.

AN ACT TO PROVIDE FOR AN INCREASED ANNUAL APPROPRIATION FOR AGRICULTURAL EXPERIMENT STATIONS AND REGULATE THE EXPENDITURE THEREOF.

Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled, That there shall be, and hereby is, annually appropriated, out of any money in the Treasury not otherwise appropriated, to be paid as hereinafter provided, to each State and Territory for the more complete endowment and maintenance of agricultural experiment stations now established, or which may be hereafter established, in accordance with the Act of Congress, approved March second, eighteen hundred and eighty-seven, the sum of five thousand dollars for the year ending June thirtieth, nineteen hundred and six, and an annual increase of the amount of such appropriation thereafter for five years by an additional sum of two thousand dollars over the preceding year, and the annual amount to be paid thereafter to each State and Territory shall be fifteen thousand dollars, to be applied only to paying the necessary expenses of conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective States or Territories.

SEC. 2. That the sums hereby appropriated to the States and Territories for the further endowment and support of agricultural experiment stations shall be annually paid, in equal quarterly payments, on the first day of January, April, July and October of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of Agriculture, out of the Treasury of the United States, to the Treasurer or other officer duly appointed by the governing boards of said experiment stations to receive the same, and such officers shall be required to report to the Secretary of Agriculture, on or before the first day of September of each year, a detailed statement of the amount so received and of its disbursement, on schedules prescribed by the Secretary of Agriculture. The grants of money authorized by this Act are made subject to legislative assent of the several States and Territories to the purpose of said grants: *Provided,* That payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of Legislature meeting next after the passage of this Act shall be made upon the assent of the Governor thereof, duly certified by the Secretary of the Treasury.

SEC. 3. That if any portion of the moneys received by the designated officer of any State or Territory for the further and more complete endowment, support and maintenance of agricultural experiment stations as provided in this Act shall by any action or contingency be diminished or lost, or be misapplied, it shall be replaced by said State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such State or Territory; and no portion of said moneys, exceeding five per centum of each annual appropriation, shall be applied directly or indirectly under any pretense whatever to the purchase, erection, preservation or repair of any building or buildings, or to the purchase or rental of land. It shall be the duty of each of said stations annually, on or before the first day of February, to make to the Governor of the State or Territory in which it is located, a full and detailed report of its operations, including a statement of receipts and expenditures, a copy of which report shall be sent to each of said stations, to the Secretary of Agriculture and to the Secretary of the Treasury of the United States.

SEC. 4. That on or before the first day of July in each year after the passage of this Act the Secretary of Agriculture shall ascertain and certify to the Secretary of the Treasury as to each State and Territory, whether it is complying with the provisions of this Act and is entitled to receive its share of the annual appropriation for agricultural experiment stations under this Act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of Agriculture shall withhold a certificate from any State or Territory of its appropriation, the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the Treasury until the close of the next Congress, in order that the State or Territory may, if it should so desire, appeal to Congress from the determination of the Secretary of Agriculture. If the next Congress shall not direct such sum to be paid, it shall be covered

into the Treasury; and the Secretary of Agriculture is hereby charged with the proper administration of this law.

SEC. 5. That the Secretary of Agriculture shall make an annual report to Congress on the receipts and expenditures and work of the agricultural experiment stations in all the States and Territories, and also whether the appropriation of any State or Territory has been withheld, and if so, the reasons therefor.

SEC. 6. That Congress may at any time amend, suspend, or repeal any or all of the provisions of this Act.

Approved March 16th, 1906.

AN ACT to supply a portion of the public lands to the more complete endowment and support of Colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an Act of Congress, approved July second, eighteen hundred and sixty-two.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be, and hereby is, annually appropriated out of any money in the Treasury not otherwise appropriated, arising from the sales of public lands, to be paid as hereinafter provided, to each State and Territory for the more complete endowment and maintenance of colleges for the benefit of agriculture and the mechanic arts now established, or which may be hereafter established, in accordance with an Act of Congress, approved July second, eighteen hundred and sixty-two, the sum of fifteen thousand dollars for the year ending June thirtieth, eighteen hundred and ninety, and an annual increase of the amount of such appropriation thereafter for ten years by an additional sum of one thousand dollars over the preceding year, and the annual amount to be paid thereafter to each State and Territory shall be twenty-five thousand dollars, to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction: *Provided,* That no money shall be paid out under this Act to any State or Territory for the support and maintenance of a college where a distinction of race or color is made in admission of students, but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this Act if the funds received in such State or Territory be equitably divided as hereinafter set forth: *Provided,* That in any State in which there has been one college established in pursuance of the Act of July second, eighteen hundred and sixty-two, and also in which an educational institution of like character has been established, or may be hereafter established, and is now aided by such State from its own revenue for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the Act to which this Act is an amendment, the Legislature of such State may propose and report to the Secretary of the Interior a just and equitable division of the funds to be received under this Act between one college for white

students and one institution for colored students established as aforesaid, which shall be divided into two parts and paid accordingly, and thereupon such institution for colored students shall be entitled to the benefits of this Act and subject to its provisions, as much as it would have been if it had been included under the Act of eighteen hundred and sixty-two, and the fulfillment of the foregoing provisions shall be taken as a compliance with the provisions in reference to separate colleges for white and colored students.

SEC. 2. That the sum hereby appropriated to the States and Territories for the further endowment and support of colleges shall be annually paid, on or before the thirty-first day of July of each year, by the Secretary of the Treasury upon the warrant of the Secretary of the Interior, out of the Treasury of the United States, to the State or Territorial Treasurer or to such officer as shall be designated by the laws of such State or Territory to receive same, who shall, upon the order of the trustees of the college, or the institution for colored students, immediately pay over said sums to the Treasurers of the respective colleges or other institutions entitled to receive the same, and such Treasurers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior on or before the first day of September of each year, a detailed statement of the amount so received and of its disbursement. The grants of moneys authorized by this Act are made subject to the legislative assent of the several States and Territories to the purpose of said grants: *Provided,* That payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of Legislature meeting next after the passage of this Act shall be made upon the assent of the Governor thereof, duly certified to the Secretary of the Treasury.

SEC. 3. That if any portion of the moneys received by the designated officer of the State or Territory for the further and more complete endowment, support and maintenance of colleges, or of institutions for colored students, as provided in this Act, shall, by any action or contingency, be diminished or lost, or be misapplied, it shall be replaced by the State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such State or Territory; and no portion of said moneys shall be applied directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings. An annual report by the President of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any Experimental Stations attached to said colleges, with their costs and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail to all other colleges further endowed under this Act.

SEC. 4. That on or before the first day of July in each year, after the passage of this Act, the Secretary of the Interior shall ascertain

and certify to the Secretary of the Treasury as to each State and Territory, whether it is entitled to receive its share of the annual appropriation for colleges, or of institutions for colored students, under this Act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any State or Territory of its appropriation, the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the treasury until the close of the next Congress, in order that the State or Territory may, if it should so desire, appeal to Congress from the determination of the Secretary of the Interior. If the next Congress shall not direct such sum to be paid it shall be covered into the treasury. And the Secretary of the Interior is hereby charged with the proper administration of this law.

SEC. 5. That the Secretary of the Interior shall annually report to Congress the disbursements which have been made in all the States and Territories , and also whether the appropriation of any State or Territory has been withheld, and if so, the reasons therefor.

SEC. 6. Congress may at any time amend, suspend or repeal any or all of the provisions of this Act.

Approved August 30, 1890.

State Laws Relating to the College

In November, 1889, *the General Assembly passed the following law, authorizing the establishment of the Clemson Agricultural College of South Carolina:*

SECTION 1300. The Honorable Thomas G. Clemson having departed this life on the sixth day of April, A. D. 1888, leaving of force his last will and testament, which was duly admitted to probate on the twentieth day of April, 1888, in the office of the Judge of Probate of the County of Oconee, in the State of South Carolina, wherein he devised and bequeathed to his executor, Richard W. Simpson, of Pendleton, South Carolina, a tract of land situated on Seneca River, in Oconee County, in said State, containing eight hundred and fourteen acres, more or less, known as the Fort Hill plantation, as well as all his other property, both real and personal, except certain legacies in the said will mentioned and provided for, all in trust to convey to the State of South Carolina when the said State shall accept the same for the purpose of establishing and maintaining an Agricultural and Mechanical College upon the aforesaid Fort Hill plantation upon the terms and conditions of said will, the State of South Carolina hereby expressly declares that it accepts the devise and bequest of Thomas G. Clemson, subject to the terms and conditions set forth in his last will and testament, and the Treasurer of the State is hereby authorized and empowered to receive and securely hold the said property, both real and personal, and to execute all necessary papers and receipts therefor as soon as the said executor shall convey and transfer the said devise and bequest to the State.

SEC. 1301. The deed and transfer of said property to the State having been duly executed and made by the said executor, in accordance with the provisions of said will, an Agricultural and Mechanical Col-

lege in connection with the aforesaid devise and bequest, to be styled "The Clemson Agricultural College of South Carolina," and situated at Fort Hill, in Oconee County, on the plantation so devised; in which College shall be taught all branches of study pertaining to practical and scientific agricultural and other industries connected therewith, and such other studies as are not inconsistent with the terms of the said will.

SEC. 1302. The said College shall be under the management and control of a Board of thirteen Trustees composed of the seven members nominated by said will and their successors, and six members to be elected by the Legislature in Joint Assembly.

SEC. 1308. One-half of the Land Scrip Fund heretofore vested by Section 1045 of the General Statutes (1882) in the Board of Trustees of the University of South Carolina is hereby vested in the six members of the Board of Trustees of the Clemson Agricultural College elected by the General Assembly; and the State Treasurer is authorized and required to issue a certificate of State stock in the sum of ninety-five thousand nine hundred dollars, bearing interest at the rate of six per centum per annum, payable semi-annually, to the said six members of the said Board of Trustees, to be held as a perpetual fund, the capital of which shall forever remain undiminished, the income of said fund to be used by said Board of Trustees for the building and maintenance of the said Clemson Agricultural College, in accordance with the purposes for which the said Land Scrip was donated by the Act of Congress in relation thereto.

SEC. 1309. The annual grant of fifteen thousand dollars, commonly known as the Hatch Bill fund, made to the State of South Carolina by the Congress entitled "An Act to establish agricultural experiment stations in connection with the colleges established in the several States under the provisions of an Act approved July second, eighteen hundred and sixty-two, and of the Act supplementary thereto," approved March 2d, 1887, shall be and hereby is, withdrawn from the control of the Board of Trustees of the University of South Carolina, in whom it was vested by an Act entitled "An Act to amend Chapter XX., of the General Statutes, entitled 'Of the University of South Carolina,'" approved December 22, 1887; and the said grant of fifteen thousand dollars is hereby vested in the six members of the Board of Trustees of the Clemson Agricultural College of South Carolina chosen by the General Assembly; and an agricultural experiment station shall be established in connection with the said Clemson Agricultural College, and under the direction of the Board of Trustees thereof, to be supported by said grant according to the provisions of the Act of Congress hereinbefore mentioned.

SEC. 1310. The Department of Agriculture of this State, as heretofore constituted and provided for by law, is abolished, and also the office of Commissioner of Agriculture for this State.

SEC. 1311. All the powers, duties, rights and privileges heretofore vested in and exercised by the Commissioner of Agriculture and the Department of Agriculture of this State are hereby vested in and devolved upon the Board of Trustees of the Clemson Agricultural College of South Carolina, except that said Board shall not have any rights, powers or privileges in reference to or in connection with the

management and control of the rights and interests of the State in the phosphate rock or phosphatic deposits in the navigable streams and marshes thereof.

SEC. 1319. All the privilege tax on fertilizers heretofore required to be paid to the Commissioner of Agriculture shall in the future be paid to the Treasurer of the State, subject to the order of the Board of Trustees of the Clemson Agricultural College of South Carolina; and so much of the money so received as shall be necessary to defray the expenses of the Board in performing the duties now by this Chapter devolved upon them shall be thus used, and the balance shall go to the said College, for its erection and maintenance.

SEC. 1320. A municipal corporation is hereby created, known as Clemson College, the limits of which shall consist of all the lands belonging to the said College and cover all the territory included in a circle formed with the College building as a center, with a radius of five miles, thus making the diameter of the circle ten miles, within which boundaries the jurisdiction of the corporation shall extend. No dispensary shall ever be located at Calhoun.

The General Assembly also passed the following law in reference to the appropriation made by Congress under the provisions of the Act approved August 30th, 1890:

SEC. 1299. All sums which shall be received by the State from the United States Government, under the provisions of the Act of Congress approved August 30th, 1890, entitled "An Act to apply a portion of the public lands to the more complete endowment and support of colleges for the benefit of agriculture and mechanic arts established under the provisions of an Act of Congress approved July 2d, 1862," shall be equally divided between the Colored Normal and Industrial College and Clemson Agricultural College to the purposes specified in said Act.

Law Relating to the State Geologist

SECTION 1. *Be it enacted by the General Assembly of the State of South Carolina,* That a section be added to Article VI., under title "The State Geologist," Civil Code of South Carolina, Vol. I., after Section 740, to be known as Section 740a. That the State Geologist furnish to Clemson Agricultural and Mechanical College as many duplicate specimens of minerals collected by him as may be practicable: *Provided,* Said College shall pay transportation charges.

Approved the second day of March, A. D. 1903.

AN ACT to provide for Beneficial Scholarships in the Clemson Agricultural College of South Carolina.

SECTION 1. *Be it enacted by the General Assembly of the State of South Carolina,* That there are hereby established and created one hundred and twenty-four (124) beneficiary scholarships in the Clemson Agricultural College of South Carolina, and each of said scholarships shall be of the value of one hundred dollars per annum, and shall be apportioned and distributed among the several Counties of the State in the same manner as the Members of the House of Representatives are apportioned, so that each County shall have as

many scholarships as such County is entitled to Members in the House of Representatives.

SEC. 2. That said scholarships shall be awarded by the State Board of Education, upon the recommendation of the County Boards of Education of the several Counties, to the most worthy and needy young men of such age as is fixed by the Board of Trustees of said College for other students, who shall have passed an approved entrance examination upon the common school branches and made at least sixty per cent., upon such examination; and preference shall be given to those young men who desire to take the agricultural course.

SEC. 3. The questions for such examinations shall be prepared by the President or some member or members of the Faculty of the said Clemson Agricultural College, under the direction of the President, and shall be forwarded to the respective County Boards of Education on or before the 15th day of July in each year, together with a statement showing the number of vacant scholarships to which each County is entitled; and the said County Boards of Education shall hold the said examinations and thereafter read and grade the examination papers of all applicants and forward the same to the State Board of Education with their recommendations as to the award of the scholarships.

SEC. 4. That before applying for the said scholarships, applicants shall make proof under oath to their respective County Boards of Education, as required by law for scholarships in the South Carolina Military Academy, of their financial inability to attend college, before they shall receive from said Board permission to stand such examination.

SEC. 5. That scholarships shall be paid from the regular income of said Clemson Agricultural College as now provided by law, and shall each continue for the term of four years, or for such length of time as the beneficiary shall be able to maintain himself and comply with the rules of the College; and the said sum of one hundred dollars per annum shall be placed to the credit of each of said beneficiaries, and applied towards the payment of his board and other necessary school expenses.

SEC. 6. That this Act shall go into effect from and after the first day of July, A. D. 1904.

Approved the 25th day of February, A. D. 1904.

AN ACT to set apart and establish Christmas holidays for the State institutions of higher learning in the State of South Carolina.

SECTION 1. *Be it enacted by the General Assembly of the State of South Carolina,* That all the State Colleges shall suspend exercises for a period of not exceeding ten days, including the time required for going from and returning to said Colleges, said period to include Christmas day and New Year's day.

Approved the 17th day of February, A. D. 1906.

Alumni Organizations

Clemson College Alumni Association

D. H. HENRY, '98, President.
B. R. TURNIPSEED, 96, First Vice-President.
W. G. ADAMS, '00, Second Vice--President.
V. B. HALL, '04, Third Vice-President.
A. B. BRYAN, '98, Secretary.
W. W. KLUGH, '96, Treasurer.
B. H. RAWL, '00, Alumni Orator of 1907; E. B. BOYKIN, '02, Alternate.

The Clemson Club of New York City

R. G. FORSYTHE, '01, President.
D. A. J. SULLIVAN, '02, Vice-President.
J. B. MOSELEY, Secretary and Treasurer.

Pittsburg Chapter of the Clemson Alumni Association

A. E. HOLMAN, '04, President.
V. C. PLATT, '04, Vice-President.
R. P. EVANS, '05, Secretary and Treasurer.

Washington Chapter of the Clemson Alumni

M. E. ZEIGLER, '02, President.
J. E. HARRALL, '05, Vice-President.
G. F. KLUGH, '01, Secretary.
L. E. BOYKIN, '05, Treasurer.
Honorary Members—SENATOR B. R. TILLMAN, HON. A. F LEVER.

Schenectady Chapter of the Clemson Alumni Association

P. G. LANGLEY, '96, President.
T. S. GANDY, '03, Vice-President.
V. BAKER, '04, Secretary-Treasurer.

Greenville Chapter Clemson Alumni Association

L. O. MAULDIN, '00, President.
L. P. SLATTERY, '05, Secretary and Treasurer.

Graduates 1896–1906

Below are given the occupations and addresses of the alumni, so far as ascertainable at the College, although in several instances as indicated these are not positively known. This preliminary and imperfect list is published here, however, in the hope that it may serve as an aid in the preparation of a complete record of all alumni from the time of graduation, which it is the purpose of the College to compile and publish from time to time in pamphlet form. Graduates, former students, and friends of the institution are requested to co-operate in making this record as nearly complete as possible and in the effort to keep it constantly up to date. The graduates themselves are specially urged to send notice promptly of all changes of occupation or address, promotions, honors, etc.

Information for this record should be addressed to Prof. A. G. Shanklin, Registrar, Clemson College, S. C.

[Note.—Courses pursued are indicated by initials in parentheses: A, agricultural; C, civil engineering; M, mechanical-electrical; T, textile. The numbers accompanying these show years of graduation.]

Adams, D. G. (C '06), Asst. Engineer Virginia Passenger & Power Co., Richmond, Va.

Adams, P. H. (M '06), Draftsman, General Electric Co., Schenectady, N. Y.

Adams, W. G. (C '00), Erecting Engineer, Roanoke Bridge Co., Roanoke, Va.

Alford, N. H. (T '03), Asst. Supt. Merrimac Mfg. Co., Huntsville, Ala.

Alford, E. P. (C '06), Draftsman, Fort Pitt Bridge Co., Cannensburg, Penn.

All, J. E. (A '00), Bookkeeper, 421 Abercorn St., Savannah, Ga.

ALL, P. H. (M '01), Bookkeeper, 224 Barnard St. Savannah, Ga.

ANDERSON, J. W. (T '01), Richburg, S. C., R. F. D. No. 1.

AULD, F. (M '06), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

AULL, B. M. (M '96), Supt. Pendleton Mfg. Co., Pendleton, S. C.

AYER, L. W. (A '00), Tobacco Investigation Expert, Bureau of Soils, U. S. Dept. of Agriculture, Marion, Ala.

BAKER, V. (M '04), General Electric Co., Schenectady, N. Y.

BALLENGER, C. P. (C '05), Civil Engineer, at present with Southern Railway, Charlotte, N. C.

BAMBERG, G. E. (M. '02), Jeweler, Bamberg, S. C.

BARKSDALE, G. R. (M '06), Greenwood, S. C.

BARNWELL, W. H. (M '03), Inspector Southeastern Tariff Association, Birmingham, Ala.

BARRE, B. H. (M '02), Manager Barre Lumber Co., Lexington, S. C.

BARRE, H. W. (A '05), student University of Nebraska, Lincoln, Neb.

BARRETT, A. R. (T. '02) Mail Service, Rock Hill, S. C.

Barton, T. F. (M '06), Testing Dept. General Electric Co., Schenectady, N. Y.

BASKIN, W. S. (M '06), Testing Dept., General Electric Co., Schenectady, N. Y.

BEATY, J. T. (C '03), Draftsman, Liddell Mfg. Co., Charlotte, N. C.

BEATY, W. S. (T '05), Orr Cotton Mills, Anderson, S. C.

BECKETT, W. (M. '06), Draftsman, General Electric Co., Schenectady, N. Y.

BLACK, W. E. G. (M '03), Consulting Engineer, City Works, Spartanburg, S. C.

BLAINE, J. M. (A '96), Chemist, Swift & Co. Montgomery, Ala.

BLEASE, J. W. (M '01), Electrician, in charge of Greenville Office, Piedmont Electric & Construction Co., Anderson, S. C.

BOESCH, J. C. (M '06), Engineering Apprentice Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

BOINEAU, C. E. (T '03) Traveling, Columbia, S. C.

BOULWARE, G. P. (A '96), Farming, Newberry, S. C.

BOWEN, J. T. (M '96), Draftsman, Newport News Shipping Co., Newport News, Va.

BOYKIN, E. B. (A '02), Special Agent, B. P. I., U. S. Dept. of Agriculture, Washington, D. C.

BOYKIN, L. E. (A '05), Secretary to Senator A. C. Latimer, and law student at Georgetown University, Washington, D. C.

BRADFORD, J. L. (C '03), Civil Engineer, American Bridge Co., New York, N. Y.

BRADLEY, J. T. (M '96), Farming, Troy, S. C.

BREAZEALE, J. F. (A '96), Chemist, Bureau of Soils, U. S. Dept. of Agriculture, Washington, D. C.

BROCKMAN, E., JR. (A '02), Clerk St. Johns Hotel, Charleston, S. C.

BRODIE, J. (T '05), Textile Chemist, in charge dye plant, Huntsville, Ala.

BROWN, E. F. (M '04), Southern Bell Tel. Co., Charleston, W. Va.

BROWN, J. H. (T '02), Merchant, Mountain Rest, S. C.

BROWNE, D. O. (A '98), Sec.-Treas. People's Oil & Fertilizer Co., Anderson, S. C.

BRUNSON, A. L., JR. (C '06), Civil Engineer, Southern Power Co., Charlotte, N. C.

BRYAN, A. B. (A '98), Asst. Prof. of English, Clemson College, S. C.

BRYAN, S. G. (A '04), Supt. Alderman Stock Farm, Alcolou, S. C.

BRYANT, F. L. (M '96), Consulting Engineer, Spartanburg, S. C.

BULL, I. W. (C '06), at present in charge of mother's farming business, Vance, S. C.

BURGESS, J. M. (A '02), Asst. in Dairying and Animal Husbandry, Clemson College, S. C.

BURGESS, W. A. (C '01), Erecting Engineer, Coal River Ry. Co., St. Albans, W. Va.

BUTLER, A. A. (A '01), Southern Railway Co., Spartanburg, S. C.

BYARS, A. F. (A '06), Cotton Buyer, Marion, S. C.

CAIN, W. O. (T '03), Textile Chemist, Overseer in dyeing plant, Richmond, Va.

CALDWELL, J. C. L. (M '05), Southern Express Co., Columbia, S. C.

CALHOUN, J. S., JR. (C '99), Supt. of Construction for Moise DeLeon, Contractor, Atlanta, Ga.

CALHOUN, P. N. (M '96), Auditor Accounting Dept., Swift & Co., Chicago, Ill.

CAMPBELL, E. G. (M '02), Electrician, General Electric Co., Panama.

CANNON, H. L. (T '01), Hartsville Cotton Mill, Hartsville, S. C.

CANNON, R. S. (M '00), Electrical Engineer, Catawba Power Co., Rock Hill, S. C.

CANTY, H. T. (C '02), Resident Engineer, R. & C. B. Railway Co., Richmond, Va.

CARPENTER, W. H. (M '96), 2d Lieut. U. S. Army, Instructor in Mathematics, West Point, N. Y.

CARR, A. B. (M '02), Manager Buckeye Cotton Oil Co., Jackson, Miss.

*CAUGHMAN, J. E. (M '00), New Mexico Cottage Sanitarium, Silver City, N. M.

CHAPMAN, W. E. (T '02), Teaching and farming, Denver, S. C.

CHEATHAM, J. E. (A '01), Conductor Southern Railway, Greenville, S. C.

CHERRY, D. F. (C '06), Assistant Engineer, Panama Canal Service, Panama.

CHISOLM, W. B. (M '03), Supt. Fort Meade Mines, V.-C. Chemical Co., Fort Meade, Fla.

CHREITZBERG, A. M. (M '96), Southern Railway Co., Washington, D. C.

CHREITZBERG, C. K. (M. '99), Resident Engineer, Roanoke Bridge Co., Rock Hill, S. C.

CLEVELAND, A. F. (A '06), Manager Dairy Farm, Spartanburg, S. C.

CLINKSCALES, G. B. (M '02), Instructor in Wofford College, Spartanburg, S. C.

CLINKSCALES, L. D. (T '01), Travelling, Heinz Pickle Co., Spartanburg, S. C.

COLE, W. F. (T '02), Medical Student John Hopkins University, Baltimore.

COLEMAN, W. W. (M '02), Civil Engineer, U. S. Government Service, Philippine Islands.

CONNOR, J. R. (A '04), Farming, Eutawville, S. C.

COPE, F. E. (T '05), Supt. Leota Cotton Mill, Graham, N. C.

COTHRAN, P. C. (C '04), Asst. Engineer, S. & W. Ry., Raleigh, N. C.

COTHRAN, T. W. (M '96), Civil Engineer, at present with Norfolk & Southern Ry., Raleigh, N. C. Permanent address, Greenwood, S. C.

COTHRAN, W. B. (T '02), Asst. Engineer, U. S. Revenue Cutter Service.

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*Died February 24, 1907.

CRAWFORD, FRANK (M '02), Inspector, U. S. Navy Yard, Charleston, S. C.

CROMER, B. C. (T '02), Teaching, Anderson, S. C., Graded Schools.

CROUCH, H. W., JR. (C '05), Asst. Engineer, S. A. L. Ry., Waldo, Fla.

CULLUM, J. C. (T '03), U. S. Revenue Cutter Service, Asst. Engineer U. S. S. "Onondaga." Address, Treasury Dept., Washington, D. C.

CUMMINGS, J. P. (T '03), Draftsman, S. A. L. Ry., Portsmouth, Va.

CUNNINGHAM, F. H. (T '03), Civil Engineer, with DeCamp & Cunningham, Anderson, S. C.

CUNNINGHAM, J. F. (T '03), Mill Engineer, with J. E. Sirrine, Greenville, S. C.

DARLINGTON, W. R., JR. (T '01), Travelling, Savannah, Ga.

DERRICK, O. L. (T '06), Dyer, Victoria Cotton Mills, Rock Hill, S. C.

DESAUSSURE, F. G. (M '03), Engineer, with Erie Engine Works, Meadeville, Penn.

DIBBLE, E. B. (M '05), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

DICKSON, L. C. (T '06), with W. E. Dickson, Yarn Broker, Charlotte, N. C.

DODD, H. B. (C '00), Asst. Engineer, American Bridge Co., Charleston, S. C.

DONALDSON, J. R. (T '00), Union Cotton Mills, Lafayette, Ga.

DOUTHIT, C. (M '02), Mgr. Augusta & Macon Mills, Buckeye Cotton Oil Co., Augusta, Ga.

DOWLING, D. (M '96), District Agt. Toledo Scales Co., and Gen. Agt. Hammond Typewriter Co., Columbia, S. C.

DUCKWORTH, J. C. (T '01), Mgr. Williamston Oil Mill, Williamston, S. C.

EARLE, D. E. (T '03), Asst. Professor Carding and Spinning, Clemson College, S. C.

EARLE, E. P. (M '96), Owner and Supt. Seneca Iron Works, Seneca, S. C.

EARLE, J. C. (M '02), Bookkeeper, Anderson, S. C.

ELDER, M. L. (M '99), Designer in Transformer Dept., Gen. Elect. Co., Schenectady, N. Y.

ELIAS, P. L. (M '04), with Schoenberg & Co., Electrical Contractors, New York City.

ELLIOTT, T. K. (M '05), New York Telephone Co., 199 DeKalb Ave., Brooklyn.

ELLIS, E. D. (M '03), Supt. City Power & Light Plant, Plant City, Fla.

ELLISON, A. G. (A '06), Southern Cotton Oil Co., Gastonia, N. C.

ELLISON, T. R. (M '06), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

EPPS, H. G. (C '00), Farming, Midland City, Ala.

EPPS, S. W. (A '03), Farming, Kingstree, S. C.

EVANS, R. P., JR. (M '05), Engineering Division, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

FAIR, W. N. (T '01), Fertilizer Inspector, Edgefield, S. C.

FARIS, S. J. (M '04), Catawba Power Co., Rock Hill, S. C.

FELDER, S. I. (M '04), New York Telephone Co., 199 DeKalb Ave., Brooklyn.

FINGER, E. R. (C '03), Civil Engineer, Fort Pitt Bridge Works, Cannonsburg, Penn.

FLETCHER, B. A. (C '00), Merchant, Gibson, N. C.

FOLK, J. F. (A '96), Cashier Holly Hill Bank, Holly Hill, S. C.

FORD, S. T. (T '04), Eureka Mills, Chester, S. C.

FORSYTHE, R. G. (M '01), Draftsman, U. S. Navy Yard, Brooklyn, 199 De Kalb Ave.

FOX, L. W. (T '03), Overseer Spinning Dept. Shetucket Mfg. Co., Norwich, Conn.

FREEMAN, B. (A '03), Asst. Chemist, Clemson College, S. C.

FURMAN, C. M., JR. (A '96), Constructing Engineer, with Lockwood & Green Co., Pee Dee, N. C.

GANDY, A. A. (T '05), Darlington Cotton Mill, Darlington, S. C.

GANDY, T. S. (M '03), General Electric Co., Schenectady, N. Y.

GARDNER, B. H. (M '03), Supt. Motor Dept., Dayton Lighting Co., Dayton, O.

*GARRIS, J. S. (A '98).

GARRISON, W. D. (A '03), Foreman Experiment Station Farm, Clemson College, S. C.

GELZER, JOHN (M '04), Correspondence Division, Westinghous Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

GELZER, J. A. (M '06), Wagner Electric Mfg. Co., St. Louis, Mo.

GENTRY, C. W. (A '98), Physician, Enoree, S. C.

GEORGE, W. D. (M '00), Electrician, Arkwright Cotton Mills, Laurens, S. C.

GETTYS, J. E. (T '02), Overseer Weaving Dept., Victoria Mills, Rock Hill, S. C.

GIGNILLIAT, C. N. (M '02), Dealer in Cotton, Fertilizers, etc., Seneca, S. C.

GLENN, J. P. (T '03), Medical Student, Vanderbilt University, Nashville, Tenn.

GLENN, T. K. (M '01), General Electric Co., Schenectady, N. Y.

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*Died November 26, 1903.

GOGGANS, J. C. (M '05), Instructor in Engineering, Newberry College, Newberry, S. C.

GOODING, P. H. (A '96), Merchant and Farmer, Crockettville, S. C.

GOODING, R. F. (M '05), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

GOODWIN, T. L. (C '06), Special Engineer, S. & W. Ry., Forest City, N. C.

GRACE, M. A. (M '04), U. S. Navy Yard, Charleston, S. C.

GRAINGER, C. A. (T '06), Overseer, Fairfield Cotton Mills, Winnsboro, S. C.

GRAY, H. K. (A '00), City Post Office, Greenville, S. C.

GRAY, J. J., JR. (C '00), Mgr. Farmers' Oil Mill, Brunson, S. C.

GREEN, H (M '03), New York Telephone Co., 199 DeKalb Ave., Brooklyn, N. Y.

GUNBY, F. M. (M '02), with Dean & Mean, Engineers, Boston, Mass.

HAGOOD, C. B. (T '03), Mgr. Pickens Cotton Mill, Pickens, S. C.

HALL, V. B. (M '04), with Ford, Bacon & Davis, Engineers, New York City, 223 W. 23d Street.

HALLUM, R. T. (A '98), County Supt. of Education, Pickens, S. C.

HAMILTON, R. G. (A '96), Physician, Converse, S. C.

HAMLIN, F. T. (T '04), Anderson, S. C.

HANVEY, G. A., JR. (A '98), Veterinarian, U. S. Army, Fort Leavenworth, Kas.

HANVEY, J. T. (M '98), Electrical Engineer, U. S. Navy Yard, Portsmouth, Va.

HARDIN, G. H. (A '02), Chief Chemist Nutriline Feed & Oil Co., Crowley, La.

HARPER, S. P. (M '06), Draftsman, Gen. Elect. Co., Schenectady, N. Y.

HARRELL, J. E. (M '03), Asst. Supt. of Lines and Cables, United Railways Co., Baltimore, Md.

HART, G. W. (M '96), Books and School Furnishings, Greenwood, S. C.

HARVEY, T. M. (M '03), Wire Chief, Southern Bell Telephone Co., Charleston, S. C.

*HAYNESWORTH, R. B. (M '03).

HENRY, A. M. (M '04), Supt. Buckeye Cotton Oil Co., Little Rock, Ark.

HENRY, D. H. (A '98), Asst. Professor of Chemistry, Clemson College, S. C.

HILL, D. H. (A '06), Asst. Chemist, Dept. of Agriculture, Washington, D. C.

HILL, S. T. (M '04), Inspector for Westinghouse Elect. & Mfg. Co., New York, 199 DeKalb Ave., Brooklyn, N. Y.

HILL, W. G. (M '01), Electrician, U. S. Navy Yard, 135 Calhoun St., Charleston, S. C.

HOLLAND, G. B. (M '06), Draftsman, Gen. Elect. Co., Schenectady, N. Y.

HOLLAND, W. A. (M '03), General Electric Co., Atlanta, Ga.

HOLMAN, A. E. (M '04), Electrical Draftsman, Union Switch & Signal Co., Wilkinsburg Station, Pittsburg, Penn.

HOOK, J. H. (M '98), Asst. Professor, Wood Work Div., Clemson College, S. C.

HOOK, W. N. (C '99), Supt. Machine Shops, Alderman Lumber Co., Alcolou, S. C.

HOYT, L. R. (C '06), Inspecting Engineer, S. A. L. Ry., 24 W. Beaver St., Jacksonville, Fla.

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*Died August 16, 1905.

HUGHES, E. T. (A '01), Attorney at Law, Marion, S. C.

HUMBERT, D. G. (T '03), Easley, S. C.

HUNTER, J. E. (M '96), Asst. Professor Mathematics, Clemson College, S. C.

JACOBS, T. B. (A '06), Chemist, Buckeye Cotton Oil Co., Macon, Ga.

*JEFFARIES, J. W. (C '99).

JEFFRIES, S. L. (A '03), Teacher, Gaffney, S. C.

JENKINS, H. S. (C '06), Civil Engineer, Southern Power Co., Great Falls, S. C.

JENKINS, J. M. (A '05), in charge of Coast Branch Experiment Station, Charleston, S. C.

JENNINGS, D. (T '02), Supt. of Weaving in Monaghan and other mills, Greenville, S. C.

JENNINGS, H. B. (T '02), Dealer in Builders' Supplies, Greenwood, S. C.

JOHNSON, J. E. (A '06), Sec. Y. M. C. A., Columbus, Ga.

JOHNSON, S. L. (T '06), Gluck Mills, Anderson, S. C.

JONES, E. H. (M '06), Supt. Cotton Oil Co., Hawkinsville, Ga.

JORDAN, F. M. (M '02), Sec. Seneca Cotton Mills, Seneca, S. C.

JOSEY, C. P. (M '05), Inspector Consolidated Railway, Charleston, S. C.

KAIGLER, B. H. (M '03), American Rubber Co., Columbia, S. C.

KAIGLER, J. G. (C '01), Southern Power Co., Chester, S. C.

KEITT, T. E. (A '06), Asst. Chemist, Clemson College, S. C.

KENNEDY, B. O. (M '05), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

KENNEDY, J. L. (A '00), Teacher, City Schools, Greenwood, S. C.

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*Died Sept. 15, 1906.

KINSLER, J. H. (A '00), Expert, with U. S. Dept. of Agriculture, Texas.

KLINCK, J. (T '06), Whittier Cotton Mills, Chattahoochee, Ga.

KLUGH, G. F. (A '01), Scientific Assistant B. P. I., U. S. Dept. of Agriculture, Washington, D. C.

KLUGH, W. W. (M '96), Asst. Professor of Drawing, Clemson College, S. C.

KOHN, D. (T '02), Asst. Mgr. Lowe Mfg. Co., Huntsville, Ala.

LACHICOTTE, F. W., JR. (M '05), Southern Power Co., Charlotte, N. C.

LANGLEY, P. G. (M '96), Switch Board Designer, Gen. Elect. Co., Schenectady, N. Y.

LARSEN, E. J. (M '02), Asst. Engineer, American Pipe Co., Philadelphia, Penn.

LARSEN, G. A. (T '03), with American Pipe Co., Charleston, S. C.

LATHROP, C. E. A. (M '05), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

LATIMER, W. J. (A '06), Assistant in Dairy Division, U. S. Dept. of Agriculture, Washington, D. C.

LAWRENCE, B. H. (M '03), Electrician, Darlington, S. C.

LAWTON, F. A. (A '00), Physician, Scotia, S. C.

LAWTON, T. O. (A '01), Regal Shoe Co., Savannah, Ga.

LEE, B. F. (M '05), with North Georgia Electric Co., Atlanta, Ga., 65 W. Peachtree Place.

LEE, R. E. (M '96), Associate Professor of Drawing, Clemson College, S. C.

LEGERTON, C. W. (T '03), Structural Engineer, with Southwestern Bridge Co., Joplin, Mo.

LEMMON, C. J. (A '05), Medical Student, Medical College of S. C., Charleston, S. C.

LEWIS, D. G. K. (M '03), Expert Car Inspector, St. Louis Car Co., St. Louis, Mo.

LEWIS, A. P. (M '00), Engineer, with General Elect. Co., Chicago, Ill.

LEWIS, J. B. (M '01), Mechanical Engineer for The Mine & Smelter Supply Co., El Paso, Texas.

LEWIS, J. E. (M '99), Construction Engineer, Gen. Elect. Co., Dallas, Texas.

LIDE, T. N. (M '04), Construction Dept., Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

LINK, R. L. (M '05), General Electric Co., Schenectady, N. Y.

LIPSCOMB, L. (C '04), Asst. Engineer, S. A. L. Ry., Portsmouth, Va.

LILES, S. E. (C '00), Bookkeeper, McColl, S. C.

LITTLE, H. F. (T '02), Mgr. Crescent Mfg. Co., Spartanburg, S. C.

LIVINGSTON, V. (M '03), Engineer, General Electric Co., Atlanta Office.

MCALILEY, A. R. (M '06), Southeastern Tariff Association, Birmingham, Ala.

MCCLAIN, J. H. (A '06), Supt. Little River Farms, Littleton, Fairfield Co., S. C.

MCCREARY, H. N. (T '03), Inspecting Engineer, S. A. L. Ry., Savannah, Ga.

MCCREARY, J. A. (M '98), Electrical Expert, Navy Dept., Washington, D. C.

MCCULLOUGH, L. H. (A '02), Director 5th District Experiment Station, Wetumpka, Ala. (Year's leave of absence, studying at Cornell.)

MCFADDEN, W. H. (A '98), Southern Power Co., Great Falls, S. C.

MCGREGOR, G. T. (M '02), with Bank, Williamston, S. C.

MCIVER, E. R. (M '02), Farming, Darlington, S. C.

McIVER, G. W. (M '04), Gen. Elect. Co., Schenectady, N. Y.

McLAURIN, F. B. (T '06), with Crompton & Knowles Loom Works, Worcester, Mass.

McLENDON, R. (A '99), Attorney at Law, Bishopville, S. C.

McLENDON, W. E. (A '01), Scientific Assistant in Bureau of Soils, U. S. Dept. of Agriculture, Washington, D. C.

McSWAIN, C. W. (T '03), Asst. Professor Designing and Weaving, Clemson College, S. C.

*McWHORTER, W. M. (M '04).

MAHAFFEY, C. B. (M. '98), Electrical Engineer, for different enterprises, Colorado Springs, Colo.

MANIGAULT, H. M. (M '04), Erie Engine Works, Meadeville, Penn.

MARTIN, J. E., JR. (A '02), Chemical Engineer, Mines of V.-C. Co., in Florida.

MARTIN, L. B. (A. '06), Asst. Chemist Armour Fertilizer Co., Atlanta, Ga.

MARVIN, H. W. (M '03), Electrical Machinist, U. S. Navy Yard, Charleston, S. C.

MATHIS, A. J. (M '99), Salesman General Electric Co., Charlotte, N. C.

MATHIS, H. M. (A '01), Truck Farming, Blackville, S. C.

MATTHEWS, E. M. (M '01), New York Telephone Co., 199 DeKalb Ave., Brooklyn.

MATTHEWS, H. W. (M '04), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

MAULDIN, C. E. (A '00), Inspector, B. A. I., U. S. Dept. of Agriculture, New Orleans, La., 220 Machela Building.

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*Died October 22, 1901.

MAULDIN, I. M. (M '96), Attorney at Law and banking, Pickens, S. C.

MAULDIN, W. F. (A '04), Farming, Pickens, S. C.

MAULDIN, L. O. (A '00), Eye, Ear and Nose Specialist, Greenville, S. C.

MAXWELL, J. D., JR. (M '98), Supt. Spartanburg, S. C., Railway Co., and President Anderson, S. C., Gas Co., Spartanburg, S. C.

MAXWELL, J. (M '04), General Electric Co., Schenectady, N. Y.

MEADOR, J. D. (M '02), with Ware & Leland, Brokers, Mobile, Ala.

MILLER, R. E. (T '04), Southern Agent Crompton & Knowles Loom Works, Charlotte, N. C.

MILLING, A. J. (M '03), Teaching, Laurell, Miss.

MINUS, J. P., JR. (A '98), with Union Packing Co. (Waldeck Branch), St. Louis, Mo.

MITCHELL, G. F. (A '02), Scientific Assistant, Tea Culture Investigations, U. S. Dept. of Agriculture, Washington, D. C.

MOORE, J. H. (A '96), Cashier Bank of St. George, St. George, S. C.

MOORE, P. W. (A '98), Travelling for Goodall, Brown & Co., of Birmingham, Ala. Address Opelika, Ala.

MOORE, W. C. (A '06), Farming, McBee, S. C., R. F. D. No. 2.

MOORMAN, T. S. (A '96), 1st Lieut. U. S. A., Fort Slocum, N. Y.

MOOREHEAD, I. H. (M '04), Electrician, Atlanta, Ga. Now with Georgia Ry. and Electric Co.

MORRISON, G. L. (T '03), Supt. Wiscassett Cotton Mills, Albemarle, N. C.

MOSS, J. M. JR. (A '06), Farming, Orangeburg, S. C.

MUNRO, T. H. (M. '02), Electric Light and Power Co., Gaffney, S. C.

MURPH, M. L. (C '05,) Asst. Engineer, S. & W. Ry., Jane, Va.

NEWELL, M. W. (M '03), with Read Machine Co., Birmingham, Ala.

NEWELL, W. H. (M '01), and C '06), Civil Engineer, Anderson, S. C.

NEWMAN, C. H. (M '05), Machinst, Pelzer, S. C.

NEWMAN, Q. B. (M '01), 1st Asst. Engineer, U. S. Revenue Cutter Service; U. S. S. "Onondaga," Norfolk, Va.

NORRIS, A. P. (A '00), Atlanta, Ga.

NORRIS, F. K. (A '02), Farming, Vance, S. C.

NORRIS, G. F. (M '03), Secretary Norris Cotton Mills, Cateechee, S. C.

NORTON, J. C. (M '04), Draftsman, American Bridge Co., Ambridge, Penn.

PARKS, J. G. (C '05), Asst. Engineer, with Southern Railway, Birmingham, Ala.

PEARMAN, F. E. (T '02), Merchant, Anderson, S. C.

PEARMAN, S. D. (T '00), U. S. Census Bureau, Washington, D. C.

PEGUES, B. F. (A '03), Attorney at Law, Cheraw, S. C.

PEGUES, O. M. (M '96), Farming, Kollocks, S. C.

PERRIN, T. S. (T '03), Inspector for American Moistening Co., Atlanta, Ga.

PHILLIPS, J. V. (C '06), Civil Engineer, with Southern Power Co., Charlotte, N. C.

PHILLIPS, T. R. (M '02), Electrician, Railway and Electric Co., Little Rock, Ark.

PICKETT, E. H. (T '01), with Beck & Gregg Hdw. Co., Atlanta, Ga.

PLATT, V. C. (M '04), Draftsman, Union Switch & Signal Co., Pittsburg, Pa.

POE, H. T., JR. (M '02) Asst. Engineer American Pipe Co., Philadelphia, Pa.

POLLITZER, C. K. (A '06).

POLLITZER, H. R. (M '03), Supt. Electric Light & Power Co., Covington, Ga.

PORTER, E. E. (Met. '05), Mining Engineer, Bingham's Canyon, Utah.

PREACHER, G. L. (M '04), Chief Consulting Engineer, Lombard Iron Works, Augusta, Ga.

PRESCOTT, W. T. (T '02), Merchant, Edgefield, S. C.

PRIOLEAU, J. F. (M '03), with Swift & Co., Montgomery, Ala.

PUTNAM, W. A., JR. (M '06), Supt. City Electric Plant, Tallahassee, Fla.

QUATTLEBAUM, P. J. (M '03), Supt. Denmark Cotton Oil Mill, Denmark, S. C.

RAMSEY, H. L. (T '01), Machine Expert, Draper Loom Co., Hopedale, Mass.

RAUCH, J. J. (T '06), Crompton & Knowles Loom Works, Worcester, Mass.

RAWL, B. H. (A '00) Expert, B. A. I., U. S. Dept. of Agriculture, Washington, D. C.

REAMER, C. Y. (M '04), Supt. Southern Cotton Oil Co., Sumter, S. C.

REEVES, R. N. (A '01), Railway service, Portland, Oregon.

REID, C. L. (C '02), Civil Engineer, Power Plant, Petersburg, Va.

REID, J. H. (C '06), Asst. Engineer with C. G. Sayre, Anderson, S. C.

RHODES, F. K. (T '03), Machinist, A. C. L. Ry., Florence, S. C.

RICHARDSON, J. C., JR. (M '05), General Electric Co., Schenectady, N. Y.

RIGGS, A. F. (M '00), Constructing Engineer, General Electric Co., Chicago, Ill.

RINEHART, K. O. (M '06), Anderson, S. C.

ROBERTS, O. M. (M '04), Bullock Electric & Mfg. Co., Cincinnati, Ohio. Station H.

ROBERTSON, B. F. (A '96), Asst. Chemist Fertilizer Division, Clemson College, S. C.

ROBERTSON, J. T. (M '03), Inspector, Southern Tariff Association, Raleigh, N. C.

ROBERTSON, S. M. (A '02), 3d Vice-President V.-C. Chemical Co., Mount Pleasant, Tenn.

RODDEY, J. H. (M '01), Asst. Designing Engineer, with Southern Power Co., Charlotte, N. C.

RODGER, J. M. (M '02), Mgr. Kansas City office of S. G. I. Electric Mfg. Co., Postal Telegraph Building, Kansas City, Mo.

ROGERS, D. F. (M '98), Engineer New York office Westinghouse Electric and Mfg. Co., New York City.

RUFF, J. W. (M '05), Inspector Charleston Consolidated Co., 320 East Bay street, Charleston, S. C.

SADLER, D. H. (M '03), Catawba Power Co., Great Falls, S. C.

SAHLMAN, H. C. (C '03), Bartlett Steel Works, Contracting Engineer, Joplin, Mo.

SALLEY, D. H. (A '02), Farming, Salley, S. C.

SALLEY, J. E. (M '01), Supt. City Water & Light Station, Bamberg, S. C.

SAMS, M. B. (T '05), Asst. Cashier, Bank of Jonesville, S. C.

SANDERS, WM. A (T '01), Asst. Supt. Darlington Mfg. Co., Darlington, S. C.

SANDERS, W. A. (C '06), Asst. Engineer, Hudson River Tunnel Construction, Penn. Ry., Hoboken, N. J.

SARRATT, W. J. (A '98), Travelling, Headquarters, Atlanta, Ga.

SAVAGE, M. A. (M '06), General Electric Co., Pitsfield, Mass.

SCHIRMER, C. C., JR. (M '05), Testing Dept., Gen. Elect. Co., Schenectady, N. Y.

SCHUMPERT, H. W. (M '06), Testing Dept. General Electric Co., Schenectady, N. Y.

SCOTT, W. H. (T '01), Mgr. National Biscuit Co., Augusta, Ga.

SEASE, L. A. (M '06), Farming, Prosperity, S. C.

SEIGLER, C. H. (M '02), Supt. Cotton Oil Mill, Aiken, S. C.

SHAW, T. C. (T '02), Statistician, Dept. of Agriculture, Washington, D. C.

SHEALEY, A. S. (A '99), Veterinarian, U. S. Department of Agriculture, Philippine Islands, Manilla, P. I.

SIAU, J. R. S., JR. (M '05), Georgetown, S. C.

SIMPSON, J. G. (M '96), Engineer and salesman, Westinghouse Elect. & Mfg. Co., Charlotte, N. C., 507 Trust Building.

SITTON, M. A. (M '02), Electrician for the Home Telephone Co., Georgetown, S. C.

SLATTERY, L. P. (C '05), Commissioner of Public Works and City Engineer, Greenville, S. C.

SLOAN, B. F. (A '96), Physician, Walhalla, S. C.

SLOAN, S. M. (T '00), Southern Railway, Greenville, S. C.

SMITH, H. G. (A '99), Sect. Liberty Cotton Mills, Liberty, S. C.

SMITH, J. B. (A '98), Teaching, Smoaks, S. C.

SMITH, W. R. (M '06), Personal Assistant to Prof. W. M. Riggs, Clemson College, S. C.

SNEED, W. F. (M '02), General Electric Co., Schenectady, N. Y.

SORRENTRUE, S. (M '05), Electrician, U. S. Naval Station, Port Royal, S. C.

SOUTHARD, L. G. (A '06), Cashier of Bank of Jonesville, S. C.

SPEER, A. J. (M '05), Draftsman, Birmingham, Ala.

SPENCER, J. H. (T '02), with Barber Coleman Co., of Rockford, Ill. Address 38 King Street, Manchester, England.

SPENCER, R. L. (A '98), Dentist, Bennettsville, S. C.

SPENCER, T. B. (T '02), with Darlington Mfg. Co., Darlington, S. C.

STEWART, S. C. (M '02), Draftsman, American Bridge Co., Ambridge, Penn.

STOKES, H. G. (M '02), Engineer, with Hall Bros., Dadeville, Ala.

STOKES, T. E. (A '06), Law Student, Nation School of Law, Washington, D. C.

STRIBLING, J. H. (M '99), Engineer, with Virginia Passenger & Power Co., Richmond, Va.

STUCKEY, H. P. (A '06), Asst. Horticulturist, Alabama Polytechnic Institute, Auburn, Ala.

SULLIVAN, D. A. J. (M '02), 2d Asst. Engineer, S. S. "Nebraska," Am. Hawaiian, San Francisco, Cal.

SULLIVAN, J. F. (M '00), Civil Engineer, Penn. Ry., Hoboken, N. J.

SUMMERS, J. C. (A '06), Asst. Chemist Louisiana State University Experiment Station, Baton Rouge, La.

SWEENY, F. R. (C '06), Asst. Engineer with DeCamp & Cunningham, Anderson, S. C.

SWYGERT, D. B. (M '05), Southern Bell Telephone Co., Columbia, S. C.

SWYGERT, G. H. (M '98), Electrical Draftsman, Navy Dept., Washington, D. C.

TALBERT, A. D. (M '98), Bureau of Statistics, Dept. of Commerce and Labor, Washington, D. C.

TARBOX, J. P. (M '04), Patent law office, of the General Electric Co., Washington, D. C.

TAYLOR, I. B. (A '99), Farmer and merchant, Greenwood, S. C.

TAYLOR, W. H. (C '05), Civil Engineer, with S. A. L. Ry., Portsmouth, Va.

TEMPLETON, W. G. (T '02), Asst. Overseer Weaving Dept., Belton Cotton Mill, Belton, S. C.

TEMPLETON, W. L. (M '04), Westinghouse Elect. & Mfg. Co., New York City. Address 199 DeKalb Ave., Brooklyn, N. Y.

TERVIN, L. A. (M '99), Engineer, in charge Mexico City office, Arthur Frantzen Co., Mexico City, Mexico.

TILLMAN, B. R., JR. (A '96), Secty. Senate Committee on Five Civilized Tribes of Indians, U. S. Senate, Washington, D. C.

TILLMAN, H. C. (M '03), Attorney at Law, Greenwood, S. C.

TINDAL, A. J. (M '96), Farmer, Silver, Clarendon Co., S. C.

TINSLEY, J. B. (A '02), Farmer, Union, S. C.

TISON, H. R. (A '01), Physician, Allendale, S. C.

THOMSON, J. C. (A '99), Editor and proprietor Dunnellon Advocate, Dunnellon, Fla.

THORNWELL, E. A. (M '04), Engineering Apprentice, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

TOMPKINS, F. G. (A '96), Attorney at Law, Columbia, S. C.

TURNER, T. H. (M '99), Supt. Anderson Light & Power Co., Anderson, S. C.

TURNIPSEED, B. R., JR. (A '96), Pastor Green Street Methodist Church, Columbia, S. C.

TUTEN, T. H. (M '96), Physician, Brunson, S. C.

VOGEL, T. R. (M '98), Draftsman, U. S. Navy Yard, Warrington, Fla.

WALKER, J. N. (A '00), Farmer and merchant, Allendale, S. C.

WALKER, T. J. (A '98), Travelling, with W. F. Furtick, Columbia, S. C.

WALKER, W. F. (A '99), Chemist, Bartow, Fla.

WALKER, W. P. (A '04), Farmer, Monie, S. C. (?)

WARD, S. M., JR. (M '02), Patent lawyer with Eastern Railway Association, Washington, D. C.

WARDLAW, W. W. (M. '96), Farmer and merchant, Troy, S. C.

WATKINS, J. B. (M '02), with Buckeye Cotton Oil Co., Jackson, Miss.

WEBB, S. L. (C '06), Asst. Engineer Hudson River Tunnel Construction, Penn. Railroad Co., Hoboken, N. J.

WELLS, C. H. (A '00), Dentist, Mullins, S. C.

WERTZ, L. A. (A '96), Secretary Belton Cotton Mills, Belton, S. C.

WESTON, W. S. (M '05), Tester, Westinghouse Elect. & Mfg. Co., Wilkinsburg Station, Pittsburg, Penn.

WHITE, H. S. (M '04), Electrical Engineer, Greenville Power Co., Greenville, S. C.

WHITE, W. P. (M '06), Stanley Electric Co., Pittsfield, Mass.

WHITNEY, J. B. (T '03), Cotton Dealer, Augusta, Ga.

WIER, J. A. (M '04), Engineer, with Arthur Frantzen Co., Mexico City, Mex.

WIGGINS, G (A '98), Farming, Holly Hill, S. C.

WIGHTMAN, W. M. (M '03), New York Telephone Co., 199 DeKalb Ave., Brooklyn, N. Y.

WILLIAMS, J. F. (T '04), Teaching, Easley, S. C.

WILLIAMS, R. G., JR. (T '03), Broker, Greenville, S. C.

WILLIAMS, V. M. (T '04), with Williams Hardware Co., Greenville, S. C.

WILSON, H. A. (M '02), Mgr. Climax Electrical Supply & Construction Co., Bluefields, W. Va.

WINTERS, R. Y. (A '06), Asst. Botanist, University of Florida, Gainesville, Fla.

WISE, J. T. (M '98), Asst. Engineer, Bureau of Equipment, U. S. Army, Newport, R. I.

WISE, W. H. (C '05), Asst. Engineer, S. & W. Ry., Woodlawn, N. C.

WOODROOF, J. L. (C '06), Asst. Engineer, U. S. Government Service, Philippine Islands.

WRIGHT, J. N. (M '06), Stanley Electric Co., Pittsfield, Mass.

WYLIE, J. C. (M '03), Electrical Draftsman, Bureau of Equipment, Navy Department, Washington, D. C.

WYSE, F. C. (C '05), Asst. Engineer, R. & C. P. Railway Co., Richmond, Va.

WYSE, J. H. (C '03), Civil Engineer, Tidewater Ry. Co., Hellbend, Va.

YOUNG, T. B. (A '03), Drug and Medicinal Plant Investigations, U. S. Dept. of Agriculture, Washington, D. C.

ZEIGLER, M. E. (A '02), Secretary to Congressman A. F. Lever, Washington, D. C.

List of Graduates 1906

Name	Course	County
D. G. Adams	Civil	Darlington
P. H. Adams	Mech. Elec.	Greenwood
E. P. Alford	Civil	Florence
F. Auld	Mech. Elec.	Greenwood
G. R. Barksdale	Mech. Elec.	Greenwood
T. F. Barton, Jr.	Mech. Elec.	Orangeburg
W. S. Baskin	Mech. Elec.	Abbeville
W. Beckett	Mech. Elec.	Charleston
J. C. Boesch	Mech. Elec.	Charleston
A. L. Brunson, Jr.	Civil	Edgefield
I. W. Bull	Civil	Orangeburg
A. F. Byars	Agri.	Marion
D. F. Cherry	Civil	Charleston
A. F. Cleveland	Agri.	Spartanburg
O. L. Derrick	Text.	Lexington
L. C. Dickson	Text.	Mecklenberg, N. C.
A. G. Ellison	Agri.	Fairfield
T. R. Ellison	Mech. Elec.	Fairfield
J. A. Gelzer	Mech. Elec.	York
T. L. Goodwin	Civil	Anderson
C. A. Grainger	Text.	Horry
S. P. Harper	Mech. Elec.	Williamsburg
D. H. Hill	Agri.	Abbeville
G. B. Holland	Mech. Elec.	Oconee
L. R. Hoyt	Civil	Sumter
T. B. Jacobs	Agri.	Lexington
H. S. Jenkins	Civil	Barnwell
J. E. Johnson	Agri.	Florence
S. L. Johnson	Text.	Charleston
E. H. Jones	Mech. Elec.	Abbeville
T. E. Keitt	Agri.	Oconee
J. Klinck	Text.	Charleston
A. R. McAliley	Mech. Elec.	Chester

NAME	COURSE	COUNTY
J. H. McClain	Agri.	Spartanburg
F. B. McLaurin	Text.	Marlboro
L. B. Martin	Agri.	Oconee
W. C. Moore	Agri.	Lee
J. M. Moss, Jr.	Agri.	Orangeburg
W. H. Newell	Civil	Anderson
J. V. Phillips	Civil	Cherokee
W. A. Putnam, Jr.	Mech. Elec.	Laurens
J. J. Rauch	Text.	Saluda
J. H. Reid	Civil	Anderson
K. O. Rinehart	Mech. Elec.	Saluda
W. A. Sanders	Civil	Anderson
M. A. Savage	Mech. Elec.	Colleton
H. W. Schumpert	Mech. Elec.	Newberry
W. R. Smith	Mech. Elec.	Charleston
L. G. Southard	Agri.	Union
T. E. Stokes	Agri.	Darlington
H. P. Stuckey	Agri.	Darlington
J. C. Summers	Agri.	Orangeburg
F. R. Sweeny	Civil	Spartanburg
S. L. Webb	Civil	Charleston
W. P. White	Mech. Elec.	Beaufort
R. Y. Winters	Agri.	Darlington
J. L. Woodroof	Civil	Chatham, Ga.
J. N. Wright	Mech. Elec.	Laurens

Students 1906–1907

Senior Class

Name	Course	County
W. B. Aull	Agri.	Anderson
J. B. Bailey	Mech. Elec.	Greenwood
M. H. Banks	Mech. Elec.	Orangeburg
J. H. Barksdale	Mech. Elec.	Greenwood
A. V. Bethea	Agri.	Marion
O. H. Bissell	Civil	Charleston
T. L. Bissell	Mech. Elec.	Charleston
L. R. Boggs	Mech. Elec.	Pickens
S. I. Bond	Agri.	Beaufort
T. N. Bristow	Mech. Elec.	Marlboro
A. K. Britt	Civil	Abbeville
J. J. Brown	Agri.	Spartanburg
A. L. Campbell	Civil	Hampton
B. D. Carter	Agri.	Colleton
J. C. Clark	Agri.	Marion
F. A. Connor	Mech. Elec.	Greenwood
E. A. Crawford	Agri.	York
H. C. Crum	Agri.	Richland
G. D. Curtis	Civil	Chatham, Ga.
R. E. Dalton	Civil	Greenville
C. E. Durant	Civil	Colleton
F. M. Dwight	Mech. Elec.	Sumter
T. D. Eason	Agri.	Charleston
R. A. Easterling	Mech. Elec.	Barnwell
A. L. Ervin	Civil	Florence
G. H. Folk	Mech. Elec.	Newberry
F. M. Furtick	Mech. Elec.	Lexington
H. E. Giles	Mech. Elec.	Greenwood
J. R. Godley	Mech. Elec.	Colleton
R. G. Harris	Agri.	Laurens
A. S. Heyward	Mech. Elec.	Chatham, Ga.
J. W. Hicklin	Mech. Elec.	Chester

NAME	COURSE	COUNTY
A. V. Hooks	Civil	Horry
L. S. Horton	Mech. Elec.	Anderson
P. LaV. Howle	Agri.	Darlington
J. S. Hughes	Agri.	Edgefield
G. R. Jones	Mech. Elec.	Sumter
E. M. Kaminer	Agri.	Richland
J. W. Keel	Agri.	Barnwell
A. M. Klugh	Agri.	Greenwood
W. A. Latimer, Jr.	Civil	Chester
R. H. Lemmon	Agri.	Fairfield
H. G. Lewis	Agri.	Oconee
P. Lykes	Agri.	Richland
E. D. McCutchan	Mech. Elec.	Sumter
J. W. McLendon	Agri.	Florence
C. W. Mack	Mech. Elec.	Orangeburg
W. J. Latimer	Text.	Abbeville
H. W. Moore	Agri.	Oconee
S. R. Perrin	Text.	Union
D. B. Peurifoy, Jr.	Agri.	Saluda
E. B. Plenge	Mech. Elec.	Charleston
C. T. Pottinger	Mech. Elec.	Chatham, Ga.
P. Quattlebaum	Mech. Elec.	Horry
O. M. Reid	Mech. Elec.	Anderson
S. F. Reid	Agri.	Abbeville
S. R. Rhodes	Mech. Elec.	Florence
R. G. Richardson	Civil	Beaufort
G. DuP. Sanders	Agri.	Barnwell
E. L. Saunders	Civil	York
W. L. Schachte	Mech. Elec.	Charleston
F. B. Schirmer	Civil	Charleston
W. O. Scott	Agri.	Edgefield
E. M. Shingler	Civil	Charleston
W. P. Sloan	Agri.	Anderson
P. W. Spencer	Agri.	York
F. M. Stephenson	Mech. Elec.	Lancaster
W. H. Stevens	Agri.	Greenville
W. L. Stone	Mech. Elec.	Colleton

NAME	COURSE	COUNTY
A. B. Taylor	Civil	Pickens
R. R. Tolbert	Agri.	Greenwood
C. W. Wannamaker	Civil	Orangeburg
W. W. Wannamaker	Agri.	Orangeburg
L. S. Wolfe, Jr.	Agri.	Orangeburg
O. D. Wood	Mech. Elec.	Greenville
W. H. Wylie, Jr.	Mech. Elec.	York

Junior Class

M. H. Ackerman	Agri.	Colleton
T. S. Allen	Mech. Elec.	Abbeville
J. E. Alverson	Agri.	Spartanburg
S. E. Bailes	Agri.	Lancaster
A. J. Baker	Agri.	Horry
A. F. Beaver	Mech. Elec.	Richmond, Ga.
G. D. Bellinger, Jr.	Mech. Elec.	Barnwell
J. O. Bethea	Agri.	Marlboro
S. C. Blease	Agri.	Saluda
L. C. Boone	Civil	Orangeburg
J. L. Boyd	Mech. Elec.	Laurens
E. B. Brown	Agri.	Anderson
H. H. Brunson	Agri.	Orangeburg
J. M. Bryan	Civil	Charleston
C. W. Busch	Agri.	Aiken
W. E. Campbell	Civil	Beaufort
C. L. Cannon	Agri.	Newberry
R. B. Carpenter	Mech. Elec.	Pickens
F. P. Caughman	Agri.	Richland
J. S. H. Clarkson	Agri.	Richland
B. H. Covington	Agri.	Marlboro
F. J. Crider	Agri.	Orangeburg
F. W. Crisp	Agri.	Laurens
E. P. Crouch	Civil	Charleston
R. C. Dick	Metallurgy	Kershaw
J. H. Earle	Civil	Pickens
W. J. Evans	Civil	Abbeville
B. B. Ezell	Agri.	Spartanburg

NAME	COURSE	COUNTY
S. J. Ezell	Agri.	Spartanburg
R. H. Fike	Agri.	Spartanburg
L. E. Fitzsimmons	Civil	Charleston
D. P. Folk	Agri.	Bamberg
D. M. Fraser	Agri.	Barnwell
H. H. Fuller	Agri.	Laurens
M. J. Funchess	Agri.	Orangeburg
E. V. Garrett	Civil	Laurens
W. P. Gee	Agri.	Union
M. M. Glasser	Mech. Elec.	Charleston
J. D. Graham	Agri.	Sumter
T. Hamilton, Jr.	Agri.	Hampton
J. H. Harvey	Agri.	Berkeley
D. N. Harris	Civil	Spartanburg
T. C. Heyward	Mech. Elec.	Beaufort
E. L. Hutchins	Agri.	Pickens
C. C. Johnson	Agri.	Spartanburg
E. M. Jones	Mech. Elec.	Sumter
A. G. Kennedy	Metallurgy	Union
M. R. Kimbrell	Mech. Elec.	York
W. W. Kirven	Agri.	Darlington
W. W. Kirk	Mech. Elec.	Abbeville
E. S. Kohn	Mech. Elec.	Newberry
J. C. LaBorde	Agri.	Richland
J. J. LaRoche	Mech. Elec.	Charleston
A. C. Lee	Civil	Anderson
J. P. Lewis, Jr.	Mech. Elec.	Oconee
J. W. Lewis	Agri.	Horry
J. C. Littlejohn	Mech. Elec.	Union
R. B. Lowry	Agri.	Chester
J. E. Lunn	Agri.	Florence
W. M. Lunn	Agri.	Florence
N. Lykes	Agri.	Richland
W. A. Mace	Agri.	Marion
J. M. Massey	Mech. Elec.	York
C. W. Marston	Agri.	Henrico, Va.
F. L. Martin	Agri.	Horry

NAME	COURSE	COUNTY
L. E. May	Agri.	Charleston
W. H. Maynard	Agri.	Greenwood
J. M. Miller	Mech. Elec.	Lexington
C. McCaslan	Civil	Greenwood
J. T. McLane	Agri.	Abbeville
C. E. McLean	Agri.	Chesterfield
C. A. McLendon	Agri.	Lee
J. McG. Napier	Agri.	Marlboro
T. L. Ogier, Jr.	Agri.	Charleston
O. M. Page	Civil	Marion
J. R. Pennell	Civil	Anderson
J. A. Phillips	Agri.	Orangeburg
R. O. Poag	Mech. Elec.	York
W. O. Pratt	Civil	Greenwood
J. E. Reaves	Mech.	Marion
R. A. Reid	Civil	Aiken
C. W. Rice	Agri.	Bamberg
L. G. Richardson	Agri.	Barnwell
H. B. Riser	Mech. Elec.	Laurens
H. L. Rivers	Civil	Greenwood
W. J. Roach	Agri.	York
T. G. Robertson	Agri.	Laurens
O. Roper	Agri.	Marlboro
W. McL. Rosborough	Mech. Elec.	Chester
W. H. Rumff	Agri.	Orangeburg
J. B. Ryan	Agri.	Sumter
M. L. Sandifer	Agri.	Bamberg
W. H. Scott	Agri.	Edgefield
R. G. Sessions	Agri.	Horry
S. H. Sherard	Agri.	Greenwood
E. H. Shuler	Mech. Elec.	Aiken
F. W. Smith	Mech. Elec.	Marion
G. W. Speer, Jr.	Agri.	Abbeville
J. Spratt	Civil	Chester
W. B. Stanley	Mech. Elec.	Richland
C. LeR. Stevens	Agri.	Berkeley
H. K. Strickland	Agri.	Colleton

NAME	COURSE	COUNTY
H. K. Sullivan	Civil	Anderson
A. C. Summers	Agri.	Orangeburg
W. K. Tavel, Jr.	Civil	Charleston
W. A. Thomas	Agri.	Marlboro
E. J. Thornhill	Agri.	Dorchester
D. L. Tindal	Agri.	Clarendon
C. M. Trott, Jr.	Civil	Charleston
G. M. Truluck	Agri.	Sumter
G. Warren	Agri.	Colleton
L. O. Watson	Agri.	Greenwood
G. G. Weathersbee	Agri.	Aiken
W. N. Wells	Agri.	Lee
J. S. Wessinger	Agri.	Lexington
H. C. Wilburn	Agri.	Union
M. G. Williams	Mech.	Pickens
F. B. Wise	Agri.	Florence

Sophomore Class

R. E. Adams	Civil.	Edgefield
S. L. Allan	Mech. Elec.	Dorchester
J. L. Aull	Agri.	Newberry
C. E. Baldwin	Agri.	Greenville
B. F. Ballew, Jr.	Agri.	Laurens
G. M. Barnett	Agri.	Oconee
A. P. Bethea	Agri.	Marion
D. L. Bissell	Agri.	Charleston
J. R. Blair	Civil	York
R. E. Blake	Agri.	Abbeville
J. L. Boyd	Mech. Elec.	Laurens
L. B. Brandon	Agri.	York
T. L. Brice	Metallurgy	Fairfield
D. C. Britt	Mech. Elec.	Abbeville
W. J. Brockinton	Agri.	Williamsburg
G. A. Burton	Civil	Newberry
L. H. Butler	Civil	Georgetown
L. P. Byars	Agri.	Marion
E. J. Carpenter	Mech. Elec.	Cherokee

NAME	COURSE	COUNTY
J. K. Carwile	Civil	Abbeville
E. Chamness	Mech. Elec.	Marlboro
O. M. Clark	Mech. Elec.	Lexington
W. C. Clark	Agri.	Lee
E. D. Clement	Agri.	Charleston
I. N. Colclough	Metallurgy	Clarendon
L. A. Coleman	Mech. Elec.	Florence
S. Coles	Agri.	Richland
J. C. Covington	Civil	Marlboro
W. H. Cunningham	Civil	Lancaster
W. G. Dominick	Mech. Elec.	Newberry
J. L. Dove	Agri.	Fairfield
J. L. Eason	Agri.	Charleston
W. L. Easterlin	Civil	Colleton
C. W. Fant	Civil	Anderson
J. O. Field	Agri.	Pickens
F. Flemming	Agri.	Greenville
A. K. Folger	Civil	Cherokee
J. T. Folk	Civil	Newberry
T. Fulmer	Mech. Elec.	Saluda
F. L. Gandy	Agri.	Darlington
S. T. Gallman	Agri.	Newberry
J. J. Gantt	Civil	Charleston
E. A. Gardner	Civil	Aiken
L. Gardner	Civil	Darlington
E. E. Gary	Agri.	Greenville
R. T. Gaston	Mech. Elec.	Cherokee
P. McD. Gee	Mech. Elec.	Union
C. H. Goldsmith	Agri.	Greenville
J. O. Graham	Agri.	Williamsburg
F. B. Green	Mech. Elec.	York
H. H. Green	Agri.	Abbeville
A. Grier	Mech.	Sumter
G. A. Hanna	Agri.	Hampton
A. R. Happoldt	Mech. Elec.	Charleston
A. L. Harris	Agri.	Spartanburg
R. A. Harris	Mech. Elec.	Laurens

NAME	COURSE	COUNTY
J. C. Harrison	Civil	Colleton
E. C. Haskell	Mech. Elec.	Abbeville
J. L. Hawley	Mech. Elec.	Fairfield
M. R. Hirsch	Mech. Elec.	Charleston
E. R. Horton, Jr.	Civil	Anderson
A. C. Hunter	Agri.	Newberry
B. G. Hunter	Mech. Elec.	Anderson
T. M. Hunter	Mech. Elec.	Newberry
W. G. Hyrne	Mech. Elec.	Colleton
R. P. Jeter	Metallurgy	Union
W. F. R. Johnson	Civil	Marion
S. Jordan	Mech. Elec.	Chester
G. W. Keitt	Agri.	Pickens
S. O. Kelly	Mech. Elec.	Lee
A. W. Kreamer	Mech. Elec.	Greenville
J. H. Lesesne	Mech. Elec.	Charleston
J. N. Loadholt	Civil	Barnwell
G. C. McCelvey	Agri.	Abbeville
L. deB. McCrady	Civil	Charleston
W. S. McCrady	Civil	Charleston
H. W. McIver	Mech. Elec.	Chesterfield
J. N. McLaurin	Agri.	Kershaw
K. McLaurin	Agri.	Sumter
J. P. McMillan	Mech. Elec.	Marion
A. M. McWhirter	Civil	Union
E. C. Martin	Agri.	Anderson
P. Miley	Agri.	Hampton
H. P. Moore	Agri.	Sumter
J. D. Murray	Mech. Elec.	Colleton
P. A. Murray	Metallurgy	Charleston
W. L. Nance	Agri.	Laurens
R. E. Nickles	Agri.	Abbeville
C. P. Norris	Civil	Anderson
W. F. Odom	Agri.	Barnwell
W. P. Pagett	Agri.	Richland
B. L. Parnell	Agri.	Darlington
S. O. Pegues	Text.	Marlboro

NAME	COURSE	COUNTY
C. H. Pennell	Metallurgy	Abbeville
W. C. Pitts	Civil	Laurens
E. P. Porcher	Mech. Elec.	Charleston
J. C. Pridmore	Agri.	Cherokee
McQ. Quattlebaum	Civil	Horry
T. B. Reeves	Agri.	Laurens
J. C. Reid	Mech. Elec.	Spartanburg
C. M. Robbs	Civil	Cherokee
C. P. Roberts	Civil	Greenwood
W. A. Robinson	Civil	Pickens
F. E. Rogers	Mech. Elec.	Darlington
L. B. Rogers	Agri.	Marion
G. D. Ryan	Mech. Elec.	Sumter
H. K. Sanders	Agri.	Chester
W. J. Sheely	Agri.	Newberry
J. B. Simpson	Civil	Anderson
W. D. Simpson	Civil	Anderson
H. L. Smith	Civil	Georgetown
W. C. Spratt	Mech. Elec.	Chester
F. G. Tarbox	Agri.	Georgetown
J. A. Teague	Civil	Laurens
E. T. Thornhill	Agri.	Dorchester
M. L. Tyler	Agri.	Aiken
H. C. Twiggs	Civil	Greenwood
Hugh E. Vincent	Mech. Elec.	Hampton
B. Walsh, Jr.	Mech. Elec.	Sumter
V. L. Warner	Agri.	Greenwood
D. W. Watkins	Agri.	Anderson
E. Weeks	Agri.	Aiken
A. C. Whittle	Agri.	Saluda
C. Y. Wigfall	Agri.	Charleston
P. H. Wilkes	Mech. Elec.	Chester
J. H. Wilson	Mech. Elec.	Chester
B. E. Wolff	Agri.	Laurens
E. H. Wood	Mech. Elec.	Cherokee
C. M. Wootan	Mech. Elec.	Chester
J. Wylie	Agri.	Chester

NAME	COURSE	COUNTY
J. McF. Wylie	Civil	York
T. H. Yeargin	Mech. Elec.	Laurens
A. C. Young	Agri.	Richland

Freshman Class

W. McA. Albergotti	Mech.	Orangeburg
T. L. Alford	Mech.	Marion
W. Allen	Agri.	Spartanburg
M. W. Arthur	Mech.	Union
H. R. Bailey	Mech.	Barnwell
F. R. Baker, Jr.	Mech.	Charleston
R. F. Bankhead	Agri.	York
J. M. Barr	Mech.	Lexington
W. D. Barnett	Mech.	Oconee
W. A. Barnette	Agri.	York
P. A. Baxley	Agri.	Barnwell
M. W. Beach	Mech.	Colleton
D. C. Beaty	Mech.	Union
A. J. Becker	Agri.	Spartanburg
H. F. Bethea	Agri.	Marion
J. E. C. Bischoff	Mech.	Charleston
L. F. Blackman	Agri.	Darlington
J. C. Blalock	Mech.	Cherokee
W. C. Bolt	Mech.	Laurens
R. E. Bowen, Jr.	Agri.	Pickens
B. K. Boylston	Mech.	Aiken
B. D. Boykin	Mech.	Kershaw
E. M. Boykin	Mech.	Kershaw
H. A. Boykin	Mech.	Sumter
H. W. Brinson	Mech.	Greenwood
J. E. Brown	Mech.	Anderson
J. M. Buckner	Agri.	Barnwell
J. H. Bull	Mech.	Sumter
N. E. Byrd	Mech.	Orangeburg
A. M. Campbell, Jr.	Mech.	Charleston
J. N. Carothers	Mech.	York
G. T. Cassels	Agri.	Fairfield

NAME	COURSE	COUNTY
D. B. Clayton	Mech.	Fairfield
H. R. Clinkscales	Agri.	Fairfield
R. M. Coleman	Mech.	Fairfield
H. P. Cooper	Agri.	Fairfield
L. W. Corbett	Mech.	Lee
A. B. Craig	Mech.	Fairfield
B. L. Crawford	Mech.	York
J. W. Crawford	Mech.	Anderson
H. J. Crook	Mech.	Orangeburg
W. C. Crum, Jr.	Mech.	Orangeburg
H. S. Davis	Mech.	Charleston
E. Dewitt	Agri.	Florence
S. F. Donnald	Mech.	Anderson
J. F. Dorroh	Mech.	Laurens
C. A. Dorrill	Mech.	Georgetown
J. L. DuBose	Agri.	Darlington
C. A. Dukes	Agri.	Orangeburg
O. O. Dukes	Agri.	Dorchester
R. A. Earle	Agri.	Greenville
K. Easterling	Mech.	Marlboro
P. T. Easterling	Mech.	Florence
C. M. Emanuel	Mech.	Sumter
E. E. Epting	Agri.	Anderson
C. D. Evans	Mech.	Abbeville
S. E. Evans	Agri.	Clarendon
C. W. Fant	Mech.	Anderson
G. C. Fant	Mech.	Anderson
C. B. Farmer	Mech.	Barnwell
E. R. Fetner	Mech.	Richland
G. T. Floyd	Mech.	Williamsburg
W. A. Fridy	Mech.	Union
S. B. Gandy	Mech.	Darlington
G. D. Garner	Agri.	Barnwell
F. C. Gilbert	Mech.	Newberry
E. S. F. Giles	Mech.	Greenwood
A. E. Gilmore	Mech.	Union
J. D. Good	Agri.	York

NAME	COURSE	COUNTY
W. S. Goodman	Mech.	Oconee
C. Y. Gosset	Mech.	Anderson
O. H. Graham	Mech.	Williamsburg
P. P. Gregorie	Mech.	Charleston
T. C. Haile	Agri.	Kershaw
A. M. Hall	Agri.	Lancaster
E. H. Hanna	Agri.	Hampton
D. T. Hardin	Mech.	Abbeville
B. B. Harris	Agri.	Anderson
J. W. Harrison	Mech.	Spartanburg
W. S. Harvin, Jr.	Mech.	Clarendon
W. McC. Haynsworth	Agri.	Florence
N. E. Head	Mech.	Aiken
J. W. Henagan	Mech.	Orangeburg
R. P. Henderson	Agri.	Greenwood
J. H. Hendricks	Mech.	Pickens
W. H. Hester	Mech.	Greenwood
V. B. Higgins	Mech.	Pickens
J. L. Hill	Mech.	Abbeville
W. McL. Hodge	Agri.	Clarendon
T. G. Hope	Agri.	York
A. L. Howell	Mech.	Colleton
J. E. Hydrick	Agri.	Orangeburg
O. A. Hydrick	Mech.	Orangeburg
C. F. Furman	Agri.	Cherokee
G. A. Jeffords	Agri.	Darlington
J. E. Jenkins	Agri.	Richland
F. H. Jeter	Mech.	Union
H. S. Johnson	Agri.	Florence
J. L. Johnson	Mech.	Lexington
R. G. Jones	Agri.	Sumter
W. S. Jones	Mech.	Sumter
C. M. Kavanaugh	Agri.	Chesterfield
J. F. Keel	Agri.	Barnwell
J. B. Keith	Agri.	Florence
J. E. Kirby	Mech.	Spartanburg
J. S. Knox	Agri.	Oconee

NAME	COURSE	COUNTY
A. S. Lachicotte	Mech.	Georgetown
G. E. Lachicotte	Agri.	Georgetown
T. G. Ladshaw	Mech.	Spartanburg
L. L. LaRoche	Mech.	Charleston
B. F. Lawrence	Mech.	York
A. W. Leland, Jr.	Mech.	Charleston
L. S. Lindler	Mech.	Lexington
P. H. Lipscomb	Mech.	Cherokee
R. McG. Littlejohn	Mech.	Union
R. L. Love	Mech.	Spartanburg
R. W. Lowery	Mech.	Oconee
G. L. McCord	Mech.	Abbeville
O. P. McCord	Mech.	Greenwood
E. C. McCown	Agri.	Anderson
F. M. McCown	Mech.	Anderson
J. H. McDaniel	Mech.	Anderson
A. McDavid	Mech.	Abbeville
A. H. McDermid	Mech.	Richland
E. B. McElween	Agri.	Florence
R. H. McFadden	Agri.	York
A. A. McKeown	Agri.	Chester
C. McLaurin	Agri.	Sumter
H. McN. McLure	Mech.	Lee
J. P. Major	Mech.	Anderson
T. R. Marion	Mech.	Chester
W. J. Marshall	Agri.	Greenwood
L. M. Massey	Agri.	York
J. McQ. Martin	Mech.	Horry
B. W. Martin	Mech.	Greenville
H. H. Martin	Mech.	Anderson
C. F. Middleton, Jr.	Mech.	Charleston
S. L. Miller	Mech.	Chester
J. C. Milling	Mech.	Greenwood
W. H. Morgan	Mech.	Union
O. A. Morrah	Mech.	Abbeville
W. L. Morrison	Mech.	Charleston
J. P. Muse	Mech.	Greenwood

NAME	COURSE	COUNTY
G. O'N. Manchester	Mech.	Spartanburg
T. T. Neves	Mech.	Greenville
W. W. Newman	Mech.	Chesterfield
C. W. Neyle	Agri.	Charleston
W. Osborne	Mech.	Spartanburg
J. D. O'Bryan	Mech.	Williamsburg
T. R. Owen	Mech	Union
E. Parker	Mech.	Sumter
F. F. Parker	Mech.	Spartanburg
W. H. Phillips	Mech.	Orangeburg
E. H. Pinckney	Agri.	Charleston
H. B. Pitts	Mech.	Sumter
B. F. Poe	Mech.	Greenville
H. D. Plenge	Mech.	Charleston
J. S. Pyatt	Agri.	Georgetown
S. T. Ramsey	Mech.	Abbeville
A. P. Ramson	Mech.	Anderson
C. B. Ray	Mech.	Bamberg
H. L. Reaves	Agri.	Marion
J. C. Rhea	Mech.	York
J. W. Rhyne	Mech.	Cherokee
J. M. Ridgill	Agri.	Clarendon
L. D. Rogers	Agri.	Darlington
M. McK. Roddey	Mech.	Chester
F. L. Ross	Mech.	Cherokee
G. L. Salley, Jr.	Mech.	Orangeburg
T. R. Salley	Mech.	Orangeburg
C. Anderson Sanders	Mech.	Colleton
C. Ayer Sanders	Agri.	Beaufort
O. T. Sanders	Agri.	Sumter
W. E. Seabrook	Mech.	Charleston
J. A. Self	Agri.	Edgefield
M. B. Shealy	Mech.	Lexington
J. J. D. Shuler	Mech.	Lexington
K. B. Shuler	Mech.	Lexington
E. T. Simons	Mech.	Berkeley
M. D. Sims	Mech.	York

NAME	COURSE	COUNTY
A. F. Simpson	Mech.	Laurens
R. M. Simpson	Agri.	Chester
E. N. Sitton	Mech.	Anderson
A. R. Smarr	Agri.	York
C. McC. Sondley	Mech.	Abbeville
F. E. Spears	Agri.	Union
J. T. Stephenson	Mech.	Lancaster
E. L. Summer	Mech.	Darlington
L. W. Summers	Agri.	Orangeburg
S. Swygert	Mech.	Laurens
J. D. Thomas	Mech.	Marlboro
F. S. Thomason	Mech.	Spartanburg
L. C. Thompson	Mech.	Richland
C. P. Townsend	Mech.	Marlboro
L. T. Tobin	Mech.	Barnwell
J. Y. Todd	Mech.	Abbeville
C. H. Trott	Mech.	Charleston
W. S. Walker	Agri.	Barnwell
V. S. Wall	Mech.	Marion
W. M. Wall	Agri.	Marion
O. L. Walter	Mech.	Newberry
J. B. Washington, Jr.	Mech.	Orangeburg
L. D. Webb	Mech.	Anderson
J. L. Welborn	Agri.	Anderson
L. J. Welch	Mech.	Union
C. L. White	Mech.	Laurens
J. St. C. White.	Mech.	Berkeley
W. P. White	Mech.	Laurens
W. M. Wiggins	Agri.	Marion
J. M. Wilkinson	Mech.	Abbeville
D. H. Wilson	Mech.	Laurens
G. F. Wilson	Agri.	Darlington
J. H. Woodbury	Mech.	Williamsburg
M. H. Wyman	Agri.	Aiken
L. T. Wyndham	Mech.	Berkeley
D. G. Yarborough	Mech.	Fairfield

Preparatory Class

H. W. Anderson . . . . . Colleton
T. D. Arant . . . . . Orangeburg
F. T. Arnold . . . . . Anderson
R. O. Atkinson . . . . . Chester
E. Baxter . . . . . Bamberg
A. H. Bentley . . . . . Greenville
O. M. Blanton . . . . . Horry
B. B. Blease . . . . . Saluda
E. R. Bond . . . . . Anderson
P. S. Bauknight . . . . . Saluda
H. G. Boynton . . . . . Barnwell
T. J. Boykin . . . . . Darlington
C. C. Boylston . . . . . Aiken
W. McG. Bowen . . . . . Pickens
J. I. Bradford . . . . . Sumter
J. A. Breazeale . . . . . Anderson
O. B. Brodie . . . . . Oconee
N. A. Bussey . . . . . Edgefield
R. H. Cain . . . . . Florence
D. A. Cannon . . . . . Newberry
P. G. Coleman . . . . . Saluda
E. O. Connor . . . . . Colleton
S. M. Connor . . . . . Colleton
A. E. Corley . . . . . Barnwell
D. H. Covington . . . . . Marlboro
D. H. Crocker . . . . . Spartanburg
E. Cromer . . . . . Anderson
J. I. Crowther . . . . . Abbeville
H. C. Dominick . . . . . Newberry
H. L. Dominick . . . . . Newberry
O. M. Doyle . . . . . Pickens
M. DuBose . . . . . Darlington
J. W. Duckworth . . . . . Anderson
J. C. DuPre . . . . . Laurens

C. S. Evans.....Pickens
R. G. Erwin.....Anderson
M. Fudge.....Chester
J. W. Gantt, Jr.....Anderson
J. O. Garland.....Clarendon
J. H. Geiger.....Lexington
W. N. Ginn.....Hampton
L. J. Goodman.....Oconee
R. G. Gwaltney.....Fairfield
W. H. Hanckel.....Anderson
C. Holmes.....Edgefield
J. J. Hunter.....Laurens
G. G. Inman.....Cherokee
E. I. Jeffords.....Darlington
T. McD. Johnston.....Kershaw
J. A. Joyner.....Richland
R. B. Kay.....Pickens
H. O. Kaigler.....Lexington
W. D. Keasler.....Anderson
M. A. Laney.....Chesterfield
Robt. Lebby.....Charleston
S. I. Lenoir.....Sumter
W. M. Lenoir.....Sumter
M. McCown.....Anderson
E. T. McDaniel.....Anderson
R. D. McFaddin.....Clarendon
T. J. McIntosh.....Lee
W. R. Marvin.....Colleton
S. A. Miller, Jr.....Lexington
T. R. Miller.....Barnwell
A. R. Mitchell.....Charleston
P. B. Morange.....Abbeville
T. P. Nisbet.....Lancaster
D. S. Oliver.....Berkeley
L. B. Parris.....Spartanburg

W. C. Patrick.....Hampton
F. M. Rast.....Orangeburg
T. C. Redfern.....Oconee
J. J. Reedy.....Marlboro
W. T. Reeves.....Fairfield
W. H. Rentz.....Hampton
B. T. Rice, Jr.....Barnwell
J. D. Royal.....Charleston
C. B. Sanders.....Sumter
R. M. Sanders.....Sumter
W. J. Sanders.....Sumter
A. E. Schilletter.....Oconee
J. T. Shirley.....Anderson
L. B. Smith.....Spartanburg
Z. G. Smith.....Anderson
E. L. Stevenson.....Fairfield
W. J. Stevenson.....Fairfield
F. F. Stokes.....Greenville
C. B. Strom.....Edgefield
J. W. Tate.....Anderson
P. G. Thompson.....Anderson
F. J. Ville Ponteaux.....Berkeley
Henry E. Vincent.....Hampton
S. G. Venning.....Charleston
G. H. Warner.....Greenwood
G. D. Westerlund.....Bamberg
Geo. Wham.....Laurens
W. E. Whitlock.....Williamsburg
C. A. Workman.....Newberry
E. E. Wyndham.....Berkeley
W. B. Wright.....Fairfield

Sepcial Students

O. L. Derrick (B. S. Clemson College), Text...Lexington
C. D. Gentry, Textile.....Greenville
F. T. Hamlin (B. S. Clemson College), Civil Eng.Anderson
T. E. Keitt (B. S. Clemson College), Chemistry...Pickens
J. C. Summers (B. S. Clemson College), Agri..Orangeburg

Two-Year Course Textile Students

B. L. Bomar, 1st year.....Spartanburg
L. O. Bunton, 2d year.....Greenwood
J. P. Darden, Jr., 1st year.....Spartanburg
G. F. Garlington, 1st year.....Spartanburg
J. D. Irby, 1st year.....Spartanburg
W. P. Irwin, 1st year.....Spartanburg
C. F. Lokey, 1st year.....Anderson
J. H. Rhyne, 1st year.....Cherokee
H. M. Turner, 1st year.....Laurens

Irregular Students

R. L. Allston, Agri.....Georgetown
W. A. Keenan, Mech. Elec.....Richland

Summaries

By Classes

Seniors	75
Juniors	118
Sophomores	133
Freshmen	216
Preparatory	100
Special	5
Short Course Textile	9
Irregular	2
Total	658

By State

South Carolina	653
Georgia	4
Virginia	1

By Counties in South Carolina

Abbeville	27
Aiken	11
Anderson	50
Bamberg	6
Barnwell	20
Beaufort	5
Berkeley	8
Charleston	46
Cherokee	13
Chester	19
Chesterfield	5
Clarendon	8
Colleton	18
Darlington	16
Dorchester	4
Edgefield	8

Fairfield	16
Florence	14
Georgetown	8
Greenville	15
Greenwood	25
Hampton	10
Horry	9
Kershaw	6
Lancaster	6
Laurens	27
Lee	7
Lexington	14
Marion	17
Marlboro	14
Newberry	17
Oconee	12
Orangeburg	29
Pickens	17
Richland	17
Saluda	7
Spartanburg	27
Sumter	27
Union	17
Williamsburg	7
York	24
Total, South Carolina	653

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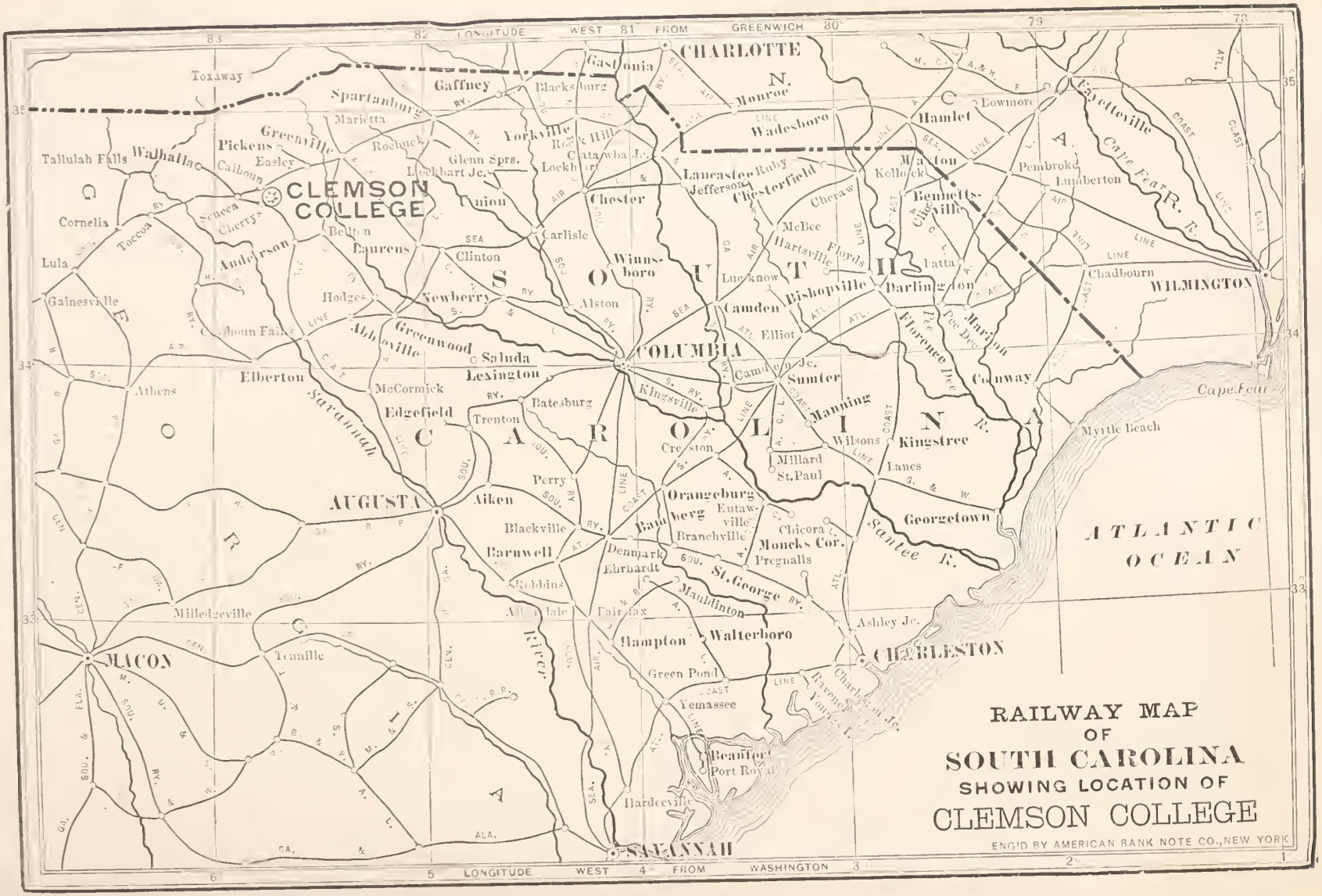
LONGITUDE WEST 81 FROM GREENWICH
LONGITUDE WEST 4 FROM WASHINGTON
CLEMSON COLLEGE
CHARLOTTE
COLUMBIA
AUGUSTA
MACON
SAVANNAH
CHARLESTON
WILMINGTON
ATLANTIC OCEAN
Cape Fear
Santee R.
Pee Dee R.
Cape Fear R.
Savannah River
Florence Dep.
Greenville
Spartanburg
Gaffney
Gastonia
Monroe
Wadesboro
Hamlet
Fayetteville
Rockingham
Marion
Lumberton
Pembroke
Bennettsville
Chesterfield
Lancaster
Rock Hill
Yorkville
Chester
Winnsboro
Union
Carlisle
Laurens
Clinton
Newberry
Alston
Greenwood
Abbeville
Saluda
Lexington
Batesburg
Edgefield
McCormick
Elberton
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Walhalla
Pickens
Easley
Greenville
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Rochuck
Glenn Sprs.
Lockhart Jc.
Tallulah Falls
Toxaway
Cornelia
Lula
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Millen
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Tennille
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Fairfax
Hampton
Walterboro
Green Pond
Yemassee
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Hardeeville
Mauldinton
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Charleston Jc.
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MACON
SAVANNAH
CHARLESTON
COLUMBIA
CLEMSON COLLEGE
RAILWAY MAP
OF
SOUTH CAROLINA
SHOWING LOCATION OF
CLEMSON COLLEGE
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